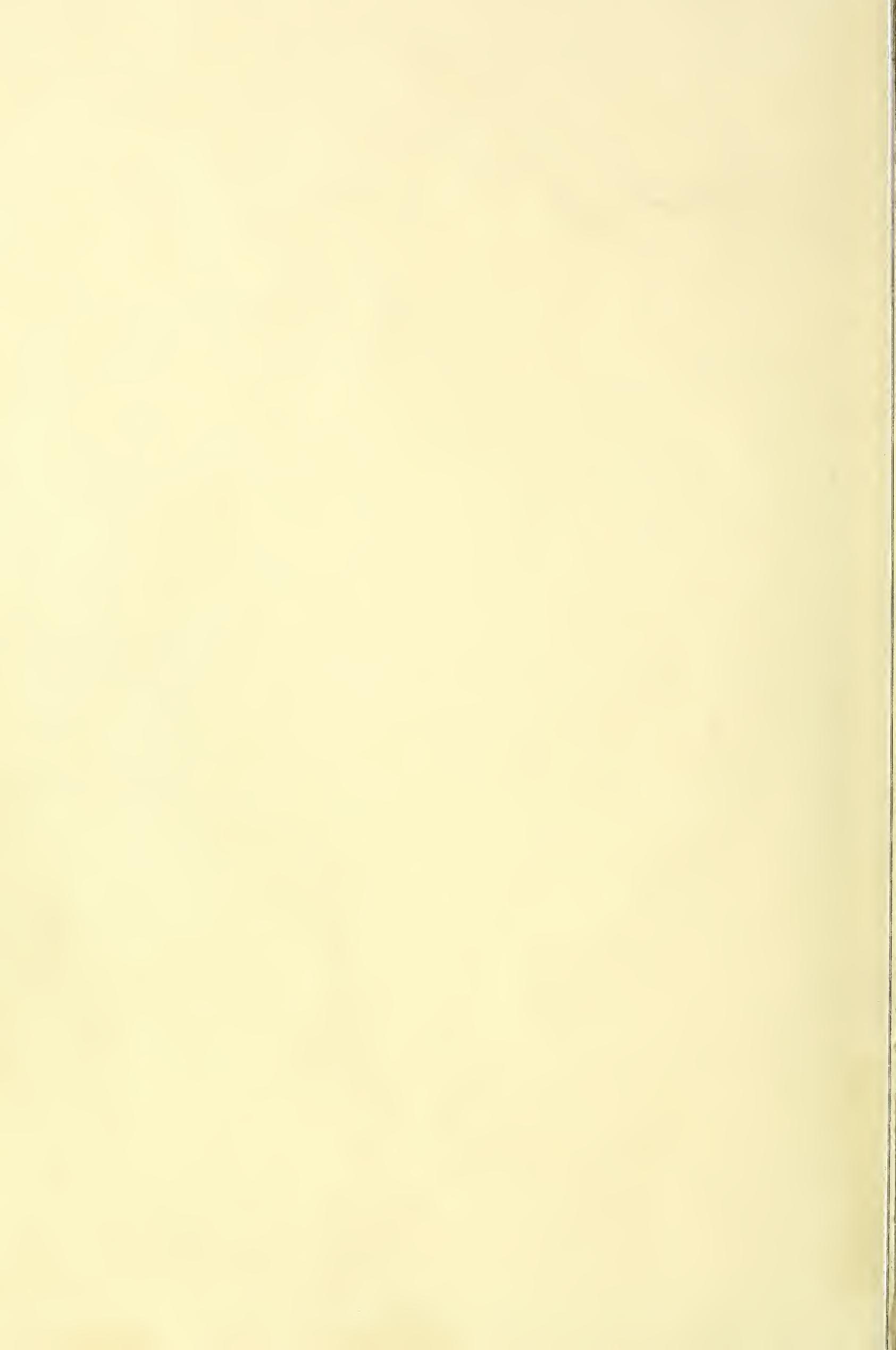


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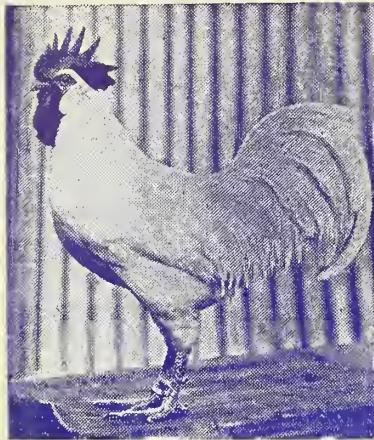


This White Wyandotte cockerel has won six firsts the past season and never has been defeated. Bred and owned by Sandy Run Poultry Yards, Ellenboro, N. C., and at the head of one of our best pens this season.

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Eggs from these grand birds at \$5.00 per setting. No day-old chicks.

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Buff Orpington Ducks
White Runner Ducks

H. L. D. HUGHES

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BEST

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Black LANGSHANS

Winners Augusta, Ga., Grand Central Palace, N. Y., Philadelphia, Pa., etc. Send for catalogue. DR. PETER HICKS, Box 334, Bound Brook, New Jersey.

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Get Norwood Poultry Farm's mating list. Won 52 firsts, 4 shows, 1913. Orpingtons, Reds, Anconas, Campines, Polish, Indian Runners and Buff Orpington Ducks. Eggs cheap. NORWOOD POULTRY FARM, Norwood N. C.

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Single Comb White Orpingtons and "Winter Laying" Single Comb White Leghorns. Eggs for hatching: Orpingtons, \$2.50 per setting of 15 eggs. Leghorns, \$1.00 per setting of 15 eggs. SHELTON POULTRY FARM, Rogersville, Tenn.

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Todd's Show You WHITE Wyandottes

They did show you 1913 Missouri laying contest; won fourth, 1759 eggs, defeating all other White Wyandottes and all Leghorns in contest except one English pen. Arkansas State Fair and Pine Bluff show they made a clean sweep. There is a reason. Free circular tells why. Eggs \$3 to \$6 per 15 prepaid. S. L. TODD, Green Forest, Ark., R. 1.

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in eggs and in their show record
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specials on 10 entries at 3 BIG 1913
shows. Frank A. Potts, Charlotte, N. C.

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If you could see my Orpingtons you would look no further for breeding eggs. Kellerstrass Crystal Whites raised "The Kellerstrass Way" \$5.00 per setting. Member American White Orpington Club. MRS. OLIVER PAYNE, Crossville, Tenn.



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Funny Sayings of Funny People

"Rastus, what's an alibi?"

"Dat's proven dat yoh was at a prayer meetin' whar yoh wasn't in order to show that yoh wasn't at de crap game whar yoh was."

Raymond is a little boy who lives in the city and has seen very little of the country. One day he went on a visit to his grandpa's farm. While out in the pasture he saw the cows chewing their cuds. Not knowing what it meant he ran to his grandpa, saying:

"Grandpa, do you have to buy gum for all of those cows?"—Rural Life.

ESTATIC LANGUAGE.

"You Kansans," said a Missourian, "always have your brass bands going and your flags flying. We in Missouri get tired of your cocksureness. Tell me what you have decided about the hen for instance? Does she 'sit' or does she 'set'? We don't bother about a thing like that," retorted the Kansan. "What concerns us is, when she cackles, has she laid or has she lied?"—Barred Rock Journal.

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Mike came to the doctor about nine o'clock with the information that their month-old-baby would not sleep a wink. The doctor gave Mike sleeping powders for the baby. The next day he met Mike on the street.

"Well, how did the powders work?" asked the doctor.

"Them powders, Doc," answered Mike, "sure did the trick."

"Made the baby sleep, did they?"

"No, that they didn't, Doc. We gave the darlint a dose, just as you told me, but it wouldn't sleep at all, at all; so we just took a dose o' them powders oursivs, we did, and went right off to sleep, and never heard the darlint cry one bit any more."—Lippincott's.

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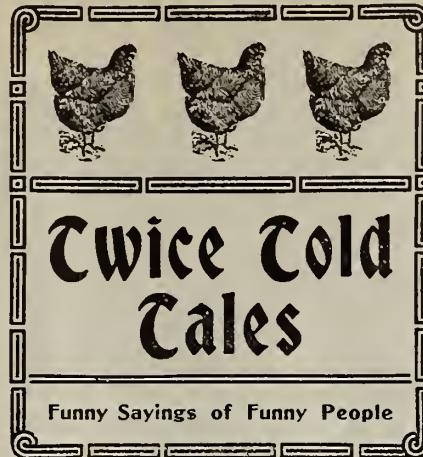
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HAVE JOINED SUFFRA-GETTES

The San Antonio Express says that a Boston hen sits and a Texas hen sets. According to the price of chickens it is possible that hens all over the country neither sit nor set.—Houston Chronicle.

HE MEANT WELL.

The teacher had the word "fright" on the board and told the pupils to make a sentence containing it. The little German boy wrote: "We have fright egg for breakfast."—Holland's Magazine.

MEMORIES OF THE PAST

Backward, turn backward, O time in your flight,
Make me an egg again, smooth,
clean and white,
I'm homesick and lonely and
life's but a dream,
For I am a chicken that was
born in a hatching machine;
Compelled in this cold world
sadly to roam,
No mother to comfort me, no
place to call home,
No mother to teach me to
scratch or to cluck,
I hardly know whether I am a
chicken or duck.—Michigan
Poultry Breeder..

LOOKING FOR QUAIL

The tourist who was anxious for game entered a Western Texas hotel, paused, and looked around. Then he quietly approached the desk and addressed the proprietor.

"Any quail about this neighborhood?"

"Quail!" echoed the proprietor, with an indulgent smile, "they have become so numerous around here that they are a nuisance. The cook complains that she can't throw a piece of toast out of the kitchen window but four or five fat quails fight to see which one shall get on it."

—December Lippincott's.

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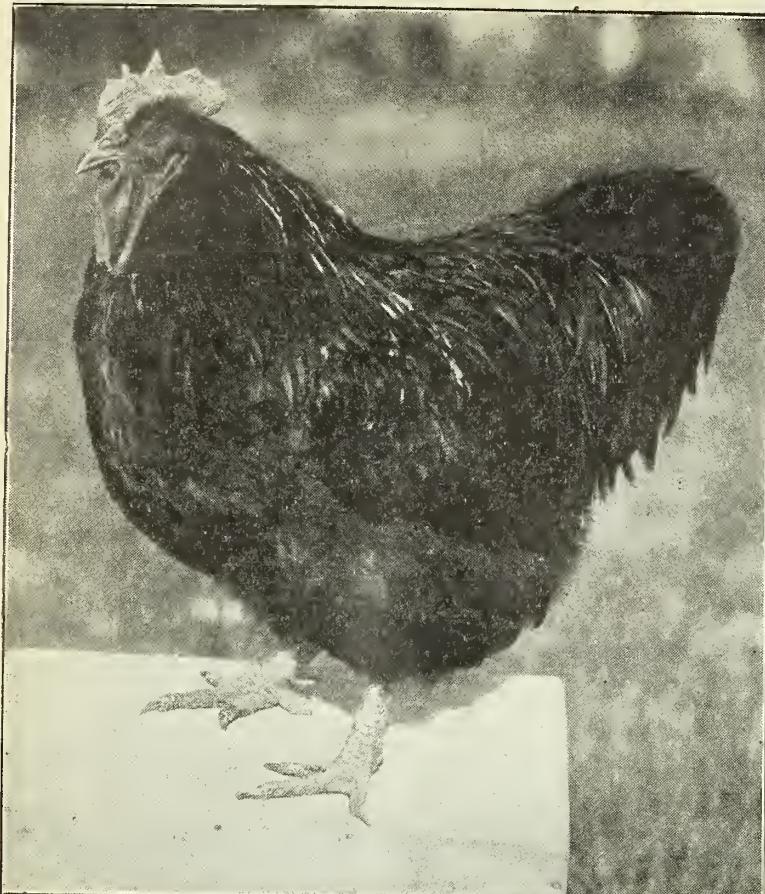
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For four years my birds have been consistent winners at the leading Southern shows—finishing with a sweeping victory at the great Southern International Poultry Show held at Atlanta, Ga., Dec., 1913, where, in competition with the originator of all the Orpingtons and big breeders from the East and West, I won first and second pens on Whites and first and fourth pens on Blacks. My 1st prize pen of Black Orpingtons was best pen in show, any and all varieties competing. I also received many awards in the single classes. My 1st prize White hen won cup offered for best hen in show. I have created, by careful selection, a wonderfully heavy laying strain of White and Black Orpingtons. My free mating list tells of the eggs I offer for hatching. Prices moderate.

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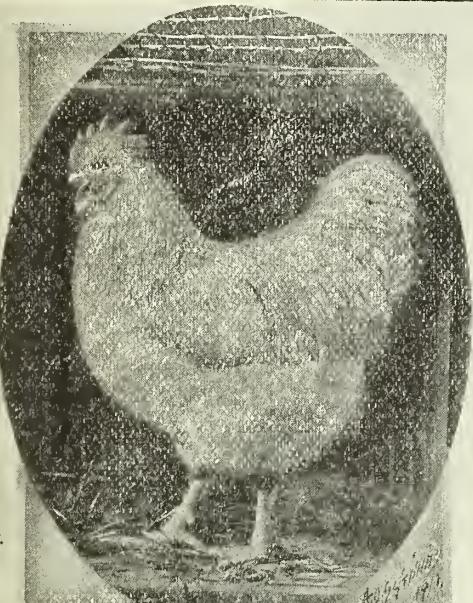
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We lead the South for quality. Our birds, in our own hands, have met all the main Northern and Eastern breeders, and for the last 5 years have won the lion's share of prizes.

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In 1912, at the National Buff Club Show, in Birmingham, we won in Buffs, 1st cock; 4th hen; 4th cockerel; 2d, 3d pullets; 1st, 4th pens.

IN BLACKS: 1st, 3d cock; 3d hen; 1st, 3d, 4th cockerel, and sweepstakes cockerel for best bird in the show. 1st pullet, 1st, 4th pens.

IN WHITES: 4th cock; 4th hen; 4th cockerel; 2d pullet; 3d pen.

In New Orleans the next week, BUFFS: 1st, 3d cock; 2d, 4th hen; 1st, 3d pullet; 4th cockerel; 1st, 2d pen.

IN BLACKS: 2d cock; 1st, 4th cockerel, and sweepstakes again, 1st pullet; 1st, 3d pen.

WHITES: 1st pen; 2d pullet; 4th cock; 4th cockerel.

Georgia State Fair, 1913, we got seven firsts, including all first pens; four seconds; three thirds; two fourths.

In Augusta, BUFFS: 1st, 3d cock; 1st, 2d pen. BLACKS: 1st, 2d cock; 2d pen. WHITES: 3d cock; 3d pen.

Does not this prove that we have as good as there is? Our birds are all farm raised. Write us, we will convince you we can give you better values for your money than any other breeder. If you want show birds fit to win, we have them at the right prices. If you want good, strong breeders, we have them from \$3.00 to \$5.00 each, that are large and fine. Satisfaction guaranteed.

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THE INDUSTRIOUS HEN

Vol. 10

Knoxville, Tenn., March, 1914

(Whole No. 118) No. 10

Matting Single Comb Brown Leghorns

By J. W. LEEMAN, Henderson's X Roads, Tennessee

THE first thing to be considered in the proper mating of any breed of fowls is the physical condition of the birds. Select both male and female that are strong, well developed birds with no signs of disease and be sure that they have never had any disease whatever, because no bird ever recovers from an attack of disease; they are more or less debilitated. As I follow the system of double mating of S. C. Brown Leghorns and as every other breeder of this famous breed must do to acquire

the standard Brown Leghorn, I will first consider the mating of the cockerel-line to produce exhibition cockerels. In selecting the male to head the pen, look first to health and vigor; then next of importance is type and style. Select a typical bird of that breed, which means a bird well set on a pair of yellow legs with no deficiency in toes, with a horn beak, bay eyes, not set too high in the head; wattles oblong, pendant, lobes small and white, or cream in color, with no red on them, except old birds where red frequently appears; a well set comb with 5 points (never less than 4 or more than 6 points) distinctly serrated and all pointed a little backward, a smooth blade running straight back from head. The comb and wattles should be neat, fine texture, especially not large and flimsy; hackle should be a deep cherry red, well striped with black. Be sure that black striping is bordered to the end of hackle feathers with red, and free from yellow tinge and smut; the latter being a very serious defect in color. The back should be long and deep red. Saddle should be same color as hackle, and fitting tail smoothly, showing no white at base of tail. Tail should consist of 7 or 8 feathers to side, carried at an angle of 40 to 45 degrees, not less than 40 or tail will appear droopy; not higher than 45, or tail will appear too high and possibly would breed squirrel tails. One large cycle feather to side with 3 or 4 lesser cycles of greenish lustre, be sure not purple; wing bone bright red; flight feather black, tipped with brown. This description filled and properly mated, should produce a large per cent of show birds. The female of the cockerel line has no standard to properly describe her, consequently one must know from experience to select her properly. She must have lots of style and should be the most beautiful form of all the Leghorn family to produce sons of beauty and described as follows: Dark horn

beak, red bay eyes; small, erect, 5 pointed comb; smooth blade; cream or white lobes; small wattles; hackle starting red at head, terminating into stripes almost color of male, with as little yellow as possible; body and breast should be a mahogany brown with lots of shafting especially on breast. Avoid black on her as that will produce purple on cockerels. She should stand well up on legs and carry a low spreading tail. A long back is necessary to insure cockerels of proper shape. Thus mated, one should expect to produce a large per cent of birds that would win in any kind of company.

Taking up the pullet line, in which every one who breeds Brown Leghorns should be mostly interested, we select the head of the pen for strength and ability and not for beauty. Like the cockerel-line female, he has no standard to describe him, hence must be selected from experience of self and others, and properly described as follows: Large, portly fellow with plenty of vigor and especially a noisy fellow; horn beak; bright bay eyes; large deeply serrated 5 pointed comb, that may or may not hang to one side; large pendant wattles; large cream or white lobes; hackle, yellow or gold slightly striped; back and saddle yellow, if possible; breast and tail black. Back should be long, tail heavy as possible, as it is very common for pullet line cocks to have light high tails, hence this must be guarded against. Legs should be long and body set well to the front on them. Avoid bright red in color as much as possible as this is where brickiness in color of hens come from.

The female is properly described in the standard as follows: Beak horn; comb, 5 points; folding to left; front point standing erect; cream or white lobes; wattles almost circular; hackle yellow with broad black stripe bound in yellow. Back and saddle a soft brown; avoid gray or mealy color. Breast rich salmon, as free from shafting as possible; tail dull black except highest feather, are striped with brown; tail should have as many as seven or eight feathers and should be carried spreading and not round. She may be described more minutely, but if she fills the above description and is a strong specimen line bred, she will, if properly mated, produce standard females. This article is intended to aid the beginner and help him avoid the reef that is before him in the form of short legs and body, yellow and smut in hackle, purple on wings and cycles of standard bred males or smut or washy hackle, mealy or brick or shafting on standard bred females. To get this pure type,



black except highest feather, are striped with brown; tail should have as many as seven or eight feathers and should be carried spreading and not round. She may be described more minutely, but if she fills the above description and is a strong specimen line bred, she will, if properly mated, produce standard females. This article is intended to aid the beginner and help him avoid the reef that is before him in the form of short legs and body, yellow and smut in hackle, purple on wings and cycles of standard bred males or smut or washy hackle, mealy or brick or shafting on standard bred females. To get this pure type,

color and style of the Leghorn one must study the standard and then attend the shows and see it applied. When mating Leghorns keep in mind style and type of the breed, then color. Breeders differ largely on color, especially of the female, but few breeders differ on type and

style of Leghorns. The S. C. Brown Leghorn when bred to the requirements of the standard is the most beautiful bird known to fanciers, and when properly fed will do more to reduce the high cost of living than all the boycotts in the world.

Hens of All the World to Participate in Egg Laying Contest at the Panama-Pacific International Exposition



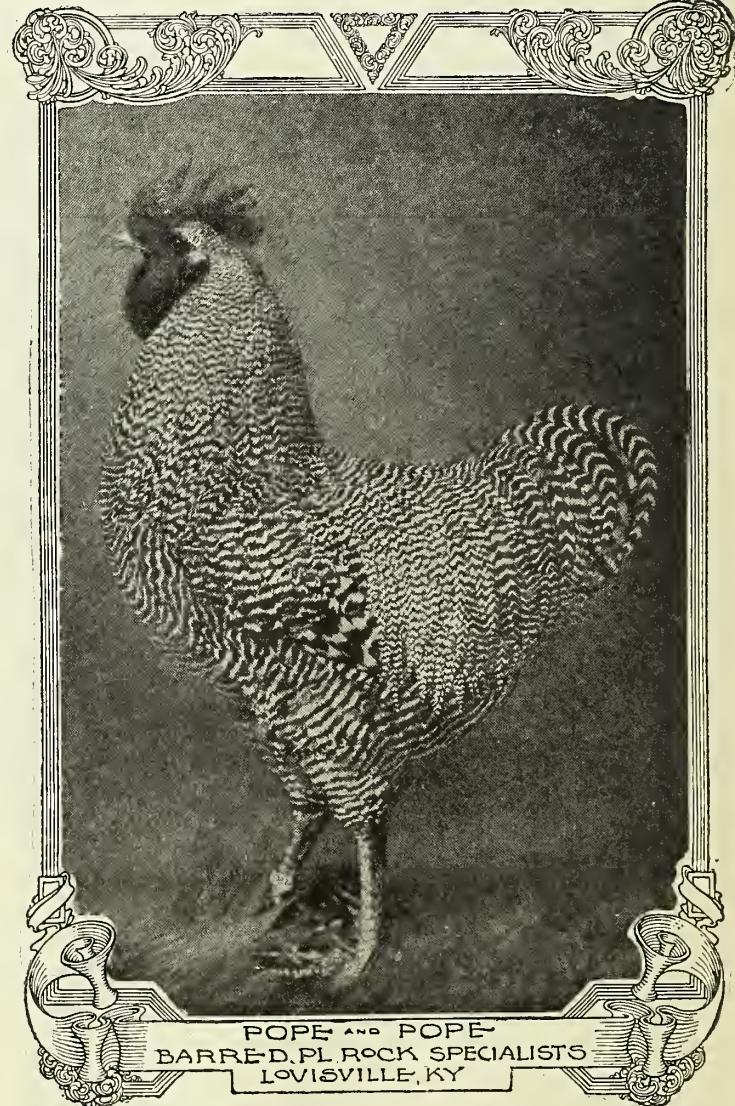
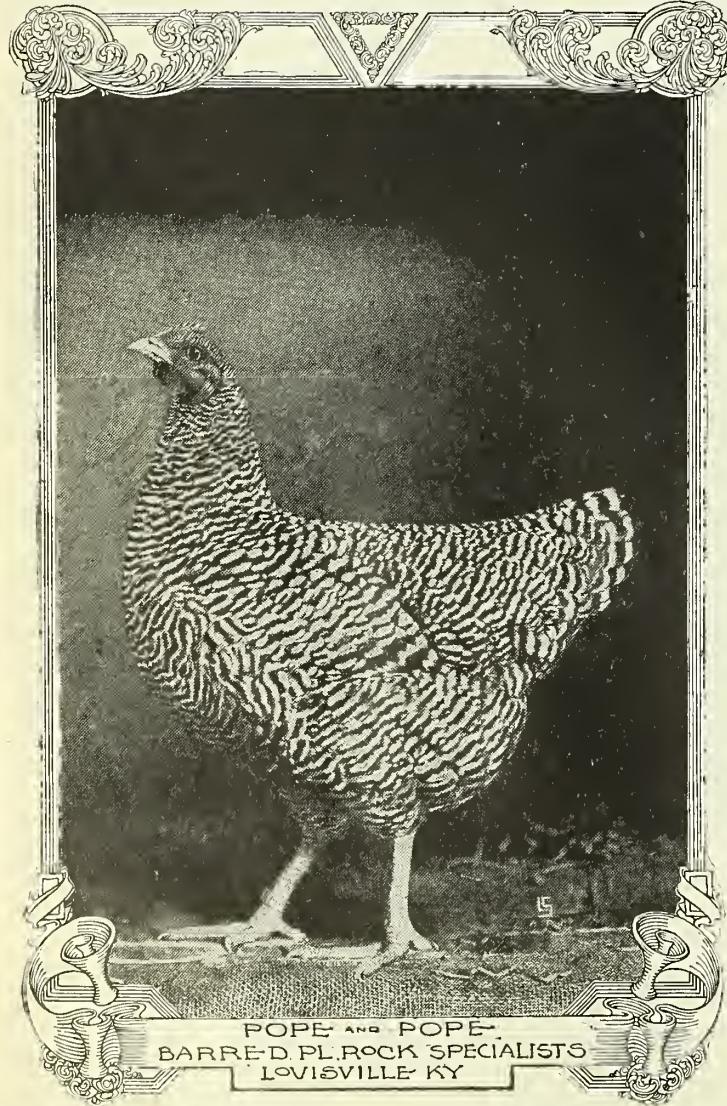
N egg-laying contest between hens from every nation for the championship of the world has been suggested as a feature for the Panama-Pacific International Exposition, which will be held in San Francisco in 1915 to celebrate the completion of the Panama Canal. The suggestion comes from A. D. Dunncliffe, Jr., of Sydney, New South Wales, honorary secretary of the Australian Laying Competition, who has submitted his plan to I. D. Graham, assistant chief of the Department of Live Stock of the Exposition. The competition, as proposed by Mr. Dunncliffe would begin in November of this year and continue until November, 1915, as the laying accomplishment of hens are measured officially by annual output.

The world's egg-laying record at present is held by a hen belonging to the Oregon Agricultural College. This hen completed its year on November 12 last, laying 303 eggs. This broke the record by a dozen eggs, which previously had been held by another hen belonging to the same institution.

It is proposed under the plan submitted by Mr. Dunncliffe that chicken raisers from every country of the world ship their best hens to San Francisco for the contest. The hens would be quartered in specially arranged coops either on the exposition grounds or in the suburbs of San Francisco. Authorized inspectors would keep a careful watch

over each hen and record the laying of each egg, during the twelve months of the competition. At the end of that time, the hen which had given the greatest number of eggs would be declared the world's champion and appropriately rewarded. Miller Purvis, chairman of the exposition's poultry advisory committee in Idaho, is greatly enthused over the proposed egg-laying contest and has given it his endorsement. After receiving the details of the scheme from Mr. Dunncliffe, Mr. Purvis wrote to Mr. Graham, assistant chief of the Live Stock Department, as follows: "I think it would be a grand opportunity to compare the laying qualities of hens from America, Europe and Australia, and I believe we could arouse an immense enthusiasm if it were arranged. You will notice that Dunncliffe guarantees a good entry from Australia and I believe England and Canada would quickly respond."

When culling out your hens, always save a few of the best for breeders. A hen that has stood up under two or three years of heavy feeding and laying and is still in good trim is a hen to tie to. Besides, she will produce eggs that are larger, stronger chicks than any pullet you have. The very fact that she is still vigorous and active is proof of her strength and vitality. The really vigorous flock always will contain a good percentage of aged birds.



The above two birds are the 4th pullet bred cockerel at Chicago and the 1st pullet at the Indiana State Fair, both of which were bred and owned by Pope & Pope, Box H, Louisville, Ky., and are a fine example of the wonderful color and barring of their birds. They have mated up pens for this year and will sell eggs and baby chicks from their exhibition and breeding pens. Write them for catalogue No. 7.

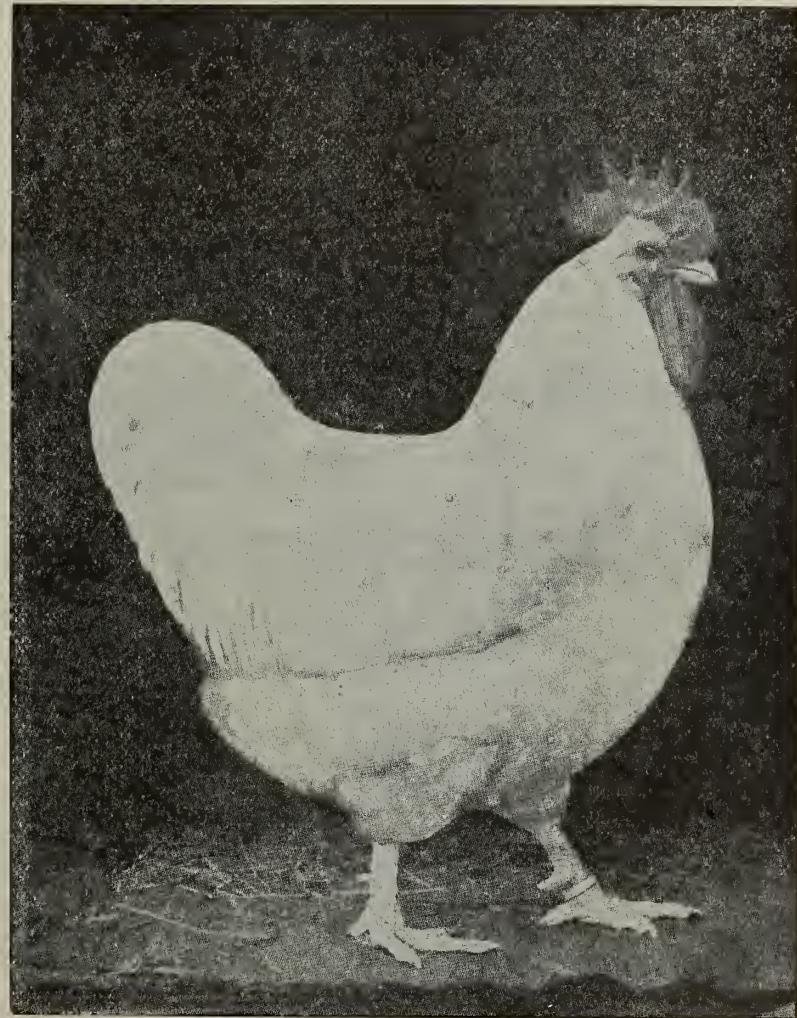
The Value of Corn As a Poultry Food

By MICHAEL K. BOYER, Hammonton, New Jersey

OME years ago the poultry press was greatly agitated over a controversy regarding corn as a poultry food. The writer, among several others, condemned the use of corn as a main diet, but the "quill-drivers" were prone to accuse the writer (and several others) of condemning the use of corn in any "shape, way or form." That corn is a valuable adjunct to the bill of fare there can be no question. That as an exclusive food it is dangerous, we have the facts ready to prove. Prof. J. E. Rice, in his Cornell Reading Course for Farmers, says: "Corn is an excellent grain. It is, perhaps, the grain most relished by fowls. Therein lies the danger. Fowls eat it so greedily that, it being a fattening food, they are likely to become overfat, if it is fed too freely." In itself, corn is not an egg food; but, balanced with other grains—wheat and oats—it is very valuable. Corn will make fat. We firmly believe that the best laying hens are those that are in good condition. Now "good condition" means just enough fat so that there will be strength enough to properly perform the work of egg production. While hens are greedy for corn, especially when it is fed to them only occasionally, it is a grain that they quickly tire of when regularly placed before them. On the farm of the writer the grain mixture is composed of corn, wheat and oats, equal parts by measurement. Fowls on free range, where insects and green feed are plentiful, will thrive on corn alone as the grain food. But when confined to runs there is great danger in feeding it exclusively. During the summer it should be given only in limited quantities, owing to its heating nature. As a winter evening feed it is recommended, as it digests slowly, and the crop of the bird is seldom empty before morning. This means a great protection during cold nights. A fowl that will not fatten when heavily fed on corn is not in good physical condition. There is some weakness. For fattening for market there is no better grain. The American and the Asiatic classes quickly fatten on Indian corn, while the Mediterranean varieties can stand considerable starchy matter before it produces such results. Heavy feeding of corn is apt to produce indigestion, and it is a noteworthy fact that the cry of "cholera" is invariably the greatest in parts of the country where corn is the most liberally given. The writer has answered hundreds of letters asking for "cholera" remedies, but investigation proved that the "cholera" cases were purely cases of indigestion (or some kindred ailments) induced by heavy corn feeding. To nearly every inquiry the writer made as to the quality of the food given, came the answer "corn." To summarize: Corn is a heating and a fattening food—excellent for winter feeding, but dangerous for summer diet. It must not be fed exclu-

sively unless the fowls have free range in an orchard or field where plenty of bugs and other insects and grass can be had. In other words, corn is not a complete food, and therefore must be properly balanced. The old style round roosts were a great mistake. The proper style is a roost that is flat. Take 2x3 inch scantling, and round the edges so that they are not sharp. Then set the roosts in sockets, or on a 2x3 inch cross piece, with the two-inch side for the fowls to roost on. Being movable they are easily taken down and cleaned. Flat roosts give the fowls a better chance to spread their feet than round poles do. Have all roosts on a level, about two feet from the ground. Underneath the roosts erect a platform to catch the droppings. Unless the noon meal can be given among a lot of straw, leaves or other light scratching material, it had better be omitted. This meal, of course, should consist of whole grain, and just enough given so as to keep the fowls at work. Idle hens soon become unprofitable. For every quart of grain fed at night, make it a pint at noon. Poultry should be fed in the morning shortly after they come from the roost. It is not always convenient to do so, especially where poultry is kept as a side issue. In such cases the fowls should have access to some scratching material, among which the night previous has been scattered a little wheat or other grain. Then about nine o'clock give the fowls the regular morning mash.

Anaemia is a condition which ultimately affects the nutritive process, becoming injurious to the functional activity of the digestive and other organs; the power of the gastric and intestinal glands are deteriorated, the action of the stomach and gizzard are weakened. All this means indigestion, and not treating it in the early stages is apt to lead on to enlargement of the liver. This deficiency in blood is caused partly by overcrowding, defective ventilation and poor light in the henry, in nutritive and insufficient food. The symptoms of the disease



"White Beauty"—A great White Orpington prize winner from the Woman's College Poultry Farm, Meridian, Miss.

are generally prostration, depression, bloodless look, especially about the eyes, comb and wattles. The comb is pallid, cold, and inclined to lop over; the mouth and tongue are white, limbs cold, and thighs apt to be somewhat swollen. In treatment, of course, the cause must be first removed. Then give a nutritious diet, fresh air, sunlight and good range. Give a liver pill each night for three nights in succession. Keep the birds comfortable, and add a teaspoonful of tincture of iron to a quart of drinking water.

One great mistake beginners generally make in buying fowls, is to at once put them with their own birds. New stock should be placed in quarantine for about two weeks, so that it can be fully determined if they are in good health. This precaution will often save serious trouble.

Each year the writer, regardless the care of the premises, has had more or less trouble in keeping lice at bay. Every known precaution was taken. But never have we



had such little trouble in this particular as the past few years, when we adopted a new method. The nests are made of tobacco stems, the same as the pigeon men use; the interior of the house is whitewashed once or twice a year; the droppings are gathered daily, when possible; and several times during the summer months kerosene is sprayed in the cracks and crevices of every pen. This method not only keeps down the army of lice, but keeps the fowls in the best of health.

To fatten broilers is by no means an easy task, as the tendency at their age is towards growth rather than flesh, and an attempt at forcing is apt to result in disease of some kind. A chicken should be two months old before any effort at fattening is made. Two weeks must be allowed for the process. The selected birds must be separated from the rest of the flock and shut up where they cannot see the other birds. They must be fed and watered systematically—fed three times a day, and a little millet seed scattered on the ground between meals. The chief feed should be corn, as it is rich in fat producing elements.

Either scalding or the dry-picking method can be used for fowls intended for market, but for broilers only the dry-picking method is allowable. A chick a few weeks old is a very tender bird, but if scalded it will be found impossible to pick it without occasionally rubbing a little of the skin off. These spots will darken and give the broiler a stale look. The scalding will also increase the tendency to decay. With dry picking not only will the bird keep much longer, but the natural firmness of the flesh prevents all fear of skinning.

What part of the egg makes the chick—the white or the yellow? Neither; and yet to a certain extent both do. In other words, the real life is nourished by both. As an individual, the chick is neither yolk nor albumen. The germ which makes the chicken—the life and individual—is imparted by the male, and seen in the little cell located on the side of the yolk. The egg is what nourishes and grows the germ into the visible chick that hatches. Without this germ the egg is of no account whatever, only a reservoir of nourishment that causes the growth of the germ. But one may take the ground that the egg is the chick, the male only quickening the same into life. The yolk is the last to be absorbed by the germ.

In the days of our grandfathers there were few if any hen houses on the farm. As a rule, the hens were compelled to roost on tree tops, shed roofs, wagons, plow handles, etc. How different are matters today. Not only do

we provide warm and comfortable houses, but have added scratching sheds to induce fowls to take the same exercise during bad weather that they would naturally take on a free range on bright, sunny days. The scratching sheds are a great improvement over the free range practice. While the ground is frozen hard, and the winds are piercing, the free range fowls must hunt fence corners, and the sunny sides of buildings, to keep warm. They cannot exercise, for every inch of ground is as hard as a rock. There is no inducement for them to forage, as the green blades of grass have been killed, the worms have sought their winter quarters, and the gravel—grit—is fairly glued to mother earth. They, therefore, can do nothing but lounge around to keep warm, from which position they only change to feed on corn, or go to roost. That was the exact condition of the fowls of our grandfathers' days (back in the 50's). Layer after layer of fat, and no eggs, was the verdict.

Leg weakness in chicks is often due to the food being of a fattening nature, and the bodies in consequence become too heavy for the muscular strength of the chick's legs. There should be bran in the soft food that is fed, it being one of the best bone and muscle foods that could be given. Afflicted chicks should be given quinine water daily—made by dissolving five grains of quinine in a quart of drinking water; also add bone meal and charcoal, and also give green food, daily.

Very often fowls, from some unexplainable cause, will become afflicted with swelled head and fever. Exposure to a draught of air, while roosting at night, however, is the most common reason, in which case the eye nearest the draught becomes first affected. In itself, swelled head is not roup, but when the lumps appear, it is one of the first stages of that disease. A very good treatment is to mix one part spirits of turpentine and four parts sweet oil. With this anoint the head, face and comb daily. Then give, twice a day, a pill composed of equal parts of bromide of potash and quinine—the pill to weigh one grain. Add, in addition, a teaspoonful of chlorate of potash to each part of drinking water.

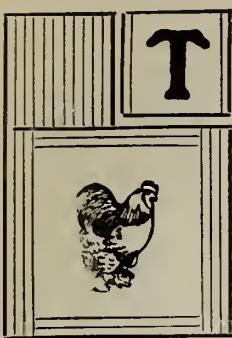
Copulation does not fertilize the egg laid the same day. A study of the ovaries teaches that the egg that is laid today was already coated with shell at least twelve hours before being laid. That meeting, however, should fertilize a series of eggs laid afterwards by the hen, although it might be several days before fertility in eggs would be found. Some authorities claim that a male actually fertilizes ten eggs at the same time.



The above is the picture of a pullet that defeated daughters of a \$1000.00 White Orpington cock. We furnish eggs from these birds at \$10.00 for 15. McKee's Orpington Farm, Box 2H, Watertown, Tenn.

Mating Poultry for Breeding Purposes

By E. G. WARDIN, Charlotte, North Carolina



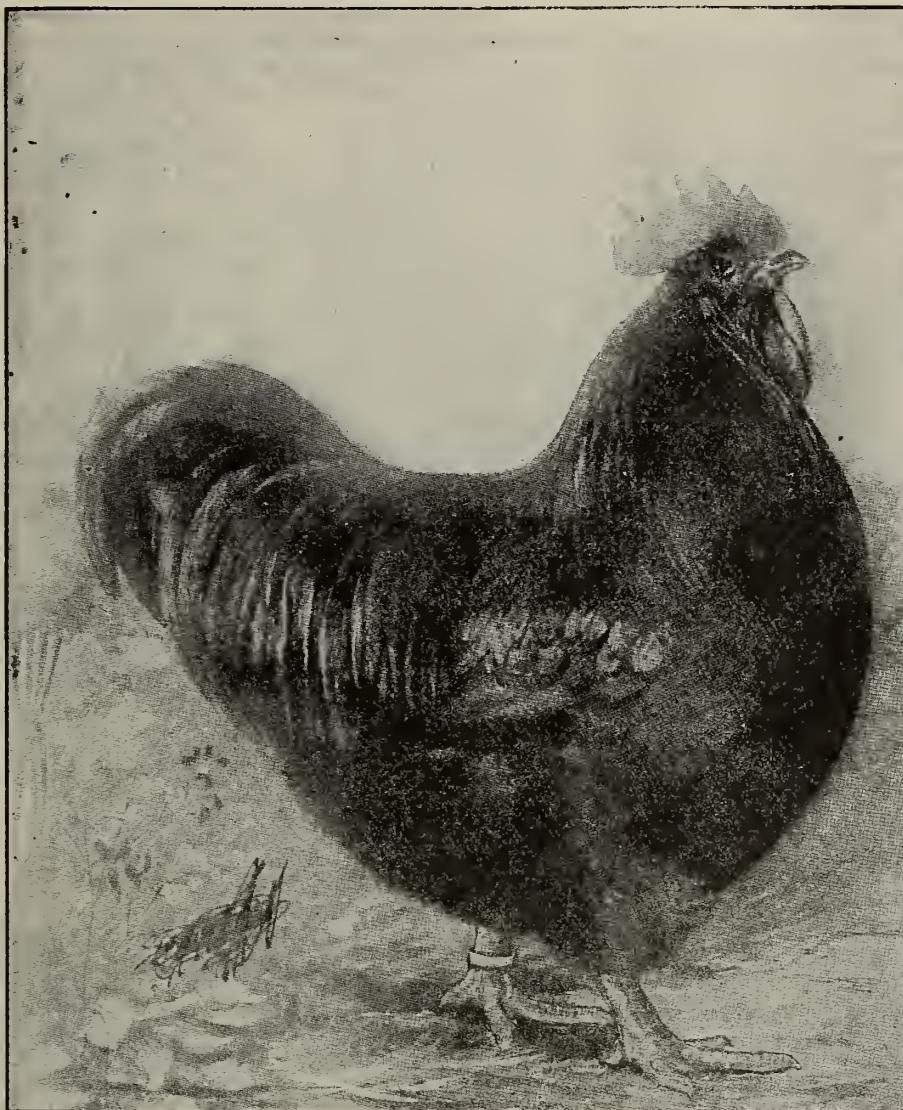
THOSE who require early chickens have long ere this mated up their breeding pens. The majority of poultry fanciers are content with somewhat later broods, hatched when the days are less short and when some spring sun may be expected, and which are less difficult and troublesome to rear. Many such breeders are only now making up their yards. I have had much success at the autumn shows with April hatched birds, and with even still later chickens, and I can, therefore, assure my readers that it is by no means too late to think about mating up desirable breeding pens, a few general rules for the guidance of novices in the pursuit may, therefore, not now be out of place.

It is very commonly believed that if a first prize cock and two or three prize hens be bought and put together, first rate offsprings must necessarily follow. I should hardly think it necessary to warn my readers against this fallacy were it not that year after year I see and hear of cases of failure and disappointment resulting from these haphazard unions. To begin with there are some varieties the cock and hen of which, if the somewhat arbitrary standards of perfection are at all to be attained, must be bred from entirely separate pens; but apart from these breeds a certain amount of science and judgment is necessary in the mating of all poultry to insure success, though occasionally by a lucky chance some accidental alliance may produce a blue ribbon bird. Money will not always buy a well matched pen, and often a skillful breeder will at very small cost make up a yard from which he can very confidently anticipate superior chickens, while an expenditure of a considerable sum of money in an ill-assorted collection of cup winners will result in failure. The first point to be ascertained is that the males and females are of a similar, if not of the same strain; first crosses of two dissimilar strains of the same breed are apt to bring out the faults of both. All races bred up to a great excellence in any one point have been much inbred; the uninitiated do not know this, and are led away by fear of degeneracy to make continual "crosses," as they call them. It is the most common thing for a beginner to think he is adopting the most improved and scientific course, if he discovers the two most successful exhibitors of his favorite breed, and buys a cock from one and two hens from the other. The result may be good, but the chances are against it being so; for probably the two great breeders each have their own favorite

type for which they have long selected their stock, and these two special beauties are both by union. This is the first point to be considered, but the following are others:

It is the long established conclusion that for the most part, the male parent chiefly influences the external appearance of the offspring, the female its internal qualities. I have observed this in my own yards. From generation to generation certain beauties or peculiarities of form have been handed down through cocks while, on the other hand the daughters of well known early layers have proved themselves early layers; and likewise as to size and number of eggs laid, like has produced like. This is a point of great interest to those who aim at producing peculiarly useful as apart from peculiarly beautiful races, and one which has been before now commended to the would-be poultry raiser. To this rule as to the cock's influence on

the external points of the fowl there is one partial exception. It has been found that the hens have the greatest power in transmitting size to the chickens. Thus, while from small but perfect cocks I have often bred magnificent fowls, I never remember having strikingly large birds from small ones. The age of the parent bird is not so material as their health, but as a rule the strongest and first chicks come from hens in their second year mated with early cockerels of the previous season. In my opinion hens of twenty months old lay as well and as early in winter as pullets, and much finer eggs. Later in the season, viz., after the middle of March, pullets of a year old with strong two year old cocks produce large and excellent chickens; earlier than that cocks of many breeds are not to be trusted unless the season and climate are exceptionally mild. Another question is frequently asked, viz., as to the respective influence of the cock and the hen upon each sex of the offspring. In this



"Black Beauty"—Famous prize winning Black Orpington of the Woman's College Poultry Farm, Meridian, Miss. Won A. P. A. gold medal. Best bird in show of nearly two thousand.

has been observed a difference between the case of the union of two birds of the same breed and that of the union of birds of two different breeds. In the former case, as a rule, each sex will, in appearance, generally follow the parent of its own sex. Speaking generally I believe the cockerel will follow their father and the pullets their mother. For this reason I fancy that the many elaborate schemes for breeding the sexes of certain varieties separately are as superfluous as they are troublesome, and that a little care and intelligence would produce both sexes in beauty from the same stock if only a compromise were made in one or two points difficult of attainment together. On the other hand where crosses of two perfectly distinct breeds are tried, each sex for the most part take after its parent of the opposite sex. There are some gen-

eral conclusions roughly made from these experiences which may perhaps aid novices in preventing the mistakes that others have made.

1st. Breed from the same strain as far as possible, or at least from two strains which are known to go well together. 2nd. Look for perfection of points in cock; for size and useful qualities in the hen. 3rd. For early chick-

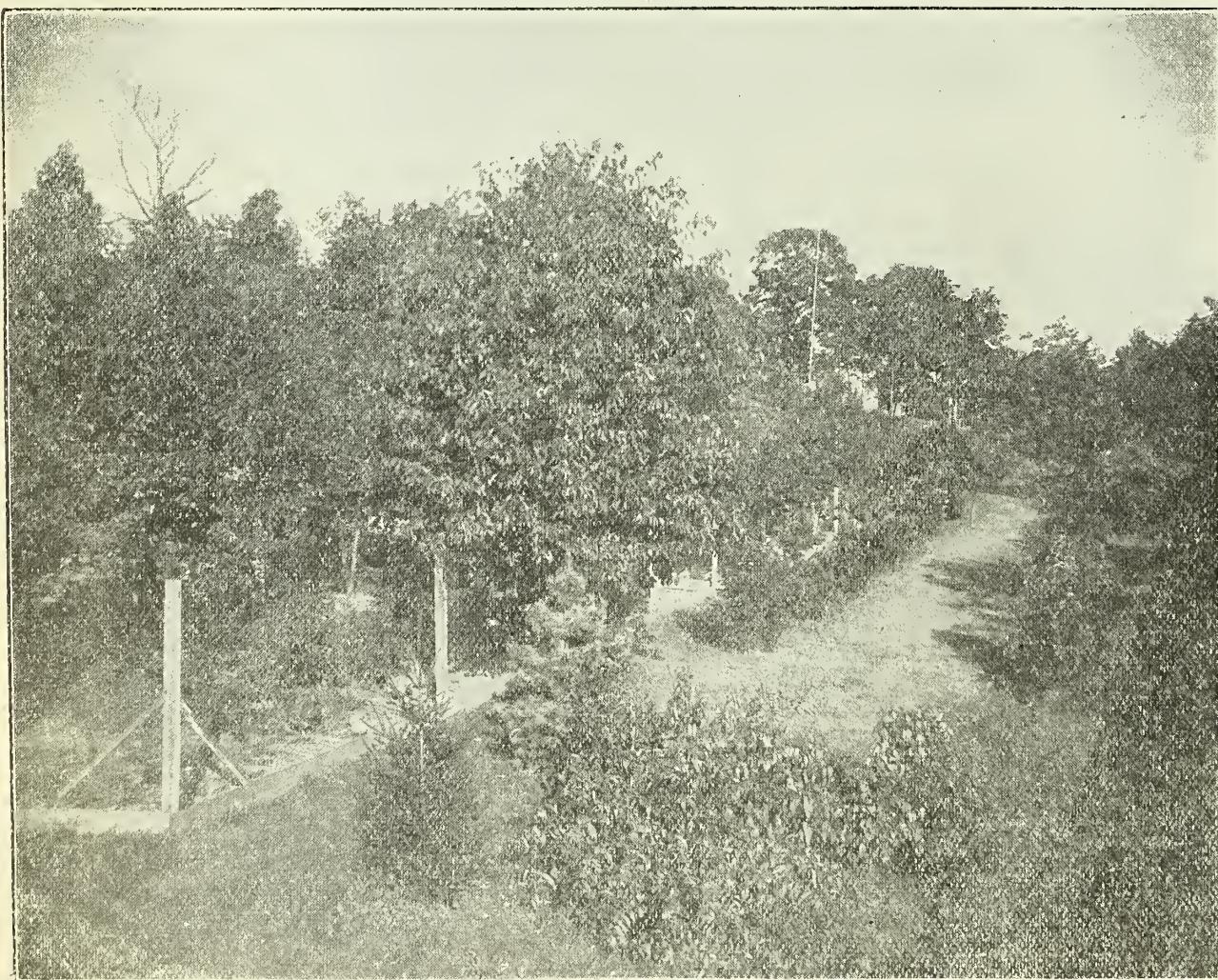
ens mate up vigorous early cockerels of last year with hens in their second season. 4th. If cocks and hens are both of the same breed and the same strain, the colors and markings of each parent will be reproduced in the offspring of the same sex, but in crosses of absolutely different breeds the feather peculiarities of each parent will, to a great extent, reappear in chickens of the opposite sex.

Nice Profits From Raising Runner Ducks

By J. W. BEESON, A. M. LL. D., Meridian, Mississippi

THE Woman's College, after testing many breeds of fowls, finds the Indian Runner Ducks the most profitable of all fowls it has tried. The Orpington chicken next, the White Leghorn next. Indian Runners were brought from India to England about eighty years ago and from there to America about twelve or fifteen years ago. They are called Indian because they came from India, and Runners because if frightened they have a peculiar way of standing nearly erect and running unlike any other duck. They don't fly over a two foot fence and are thus easily fenced. They are very hardy and easy to raise if one knows how. Breeders need to be fed at regular times in the same place and same way each day. Any change of feed, change in pens, or even strangers feeding them or going into the flock makes them nervous and they often stop laying. Start in at the first of the season like you intend to care for them without any change. The eggs generally run high in fertility, if a drake is kept for every four to six ducks in cold weather and one to six or eight ducks in warm weather, and not too many in a flock. Twenty is a pretty number, but forty can be kept together and eggs be generally fertile, while a hundred have been kept in a flock with fairly good results. In setting eggs under hens it is well to make the nest on the ground. Line it with straw or leaves or something soft. The moisture of the ground helps the eggs to hatch better. If set in incubators it is well not to turn them for the first five days,

and run the temperature a half degree lower at the top of the eggs than for hen eggs. Be sure to sprinkle them every day with warm water after the fourteenth day till they pip. Dipping them in water one hundred and three degrees in temperature for the second day after the fourteenth is even better than to sprinkle. They hatch slower than hen eggs and often rest twenty-four hours in the shell after pipping. Don't be alarmed at this. The temperature should be 104 during the hatch. Duck eggs need an incubator not so well ventilated and that has a way of supplying moisture. They need more air than hen eggs, as well as more moisture through the whole period of incubation. If moisture and air a plenty has been supplied and the temperature kept right, the ducklings usually came out of the shell within twenty-four hours after the eggs are pipped. Some people have success in helping the belated ones out of the shell, but these are generally weak ones and if gotten out successfully are frequently too weak to raise. Ducklings should not be fed for forty-eight hours after they are hatched. The first five days feed five times a day stale bread crumbs dried out or slightly toasted and thoroughly wet with sweet milk or water and squeezed out till it is crumbly. Sprinkle coarse sand over this, not too much. Be sure there are no hard lumps. Ducklings choke to death easily. Always have water by them when they eat deep enough to put their heads under but so arranged that they can't get in it. An empty gallon or half-gallon tin can with a nail hole pounded in the side so that when it is inverted in a vessel the nail hole will be just below top of vessel. Fill this can with water and invert it in a pan about 1-2 or two inches deep. The flare of the pan gives room for the duck's head to get under the water, yet not get in it. The nail hole will supply water as long as there is any water in the inverted can. Ducklings do not need quite so much heat as chickens, yet they need heat the first two or three weeks. Do not put over fifty in one hover. If eyes or nose get stopped up immerse the head several times in water, wash it clear. Ducks have no disease but often die of indigestion or sunstroke. If young ones are kept too closely confined and forced with fattening feed they may have leg weakness and may die of it. Later we will write more about feeding and caring for them till they begin laying.



A view of Wm. Cook & Sons Poultry Plant, originators of all the Orpingtons, Scotch Plains, New Jersey, giving an idea of poultry runs and trees.

Your Breeding Pens and the Care of Birds

By MRS. OLIVER T. PAYNE, Crossville, Tennessee

THE breeder who intends raising fancy stock has, of course, mated the pens several months ago, they have been receiving systematic care and feeding and are ready for the rush season of outside orders. In many instances hatching has already begun. With the average poultry raiser little has been done; the culls perhaps were sold during the fall months and the cracks around the poultry house closed. It is time now that every one who expects to hatch any kind of chickens

worth while should do more. And right now before we go any further, why not every one make a resolution that they will hatch worth while chickens and banish the unsightly mongrel from the face of the universe? Perhaps you do not care to invest much in the start, very well and good, you need not. If you prefer, keep some of your mixed birds and sell only enough to buy a setting of utility thoroughbred eggs for next year's chickens. If you decide to dispose entirely of your motley lot and buy a few thoroughbreds so you can do your own hatching; go about the matter intelligently. Don't expect to pay the same price you sold for. Decide on what breed and color is wanted and then require of the breeder first of all constitutional vigor. No doubt the combs will have many or too few serrations, the legs may be a trifle longer than standard or the plumage slightly imperfect; expect that; don't expect perfect specimens for utility prices; just see how very much prettier they are than the birds you did have. A few things you have the right to require: perfect health, see that the comb is firm and a healthy rosy red, not pale, and yet not strikingly brilliant. The eyes should be clear, the bill stout and strong. Avoid a sharp crow-shaped head and beak above all things; they are culls pure and simple. It denotes lack of nutritious feed while growing; lack of stamina now, no amount of care or feeding from you will ever make them or their progeny worth while birds. There will be a day when selling culls for breeding prices will be getting money under false pretenses. If one sees the birds and uses poor judgment in selecting, the fault is somewhat his own, but in a large amount of sales, the purchaser must depend on the honesty and judgment of the breeder, and the unscrupulous quack breeder should be dealt with just as any other miscreant.

If you are going to raise chickens, ever so few, you will get much more pleasure and profit by giving the work a little intelligent thought. Study a few essentials regarding the breed you have decided upon and you will not be such an easy victim for the wily quack. But, back to the breeding pen. You have gotten thoroughbreds; their very appearance denotes health, vigor and business. Of course, you know the male should be superior and never

inferior to the hens. Now, provide them with comfortable quarters. This does not mean too warm. I cannot recommend any thing better than Kellerstrass plan of houses; they are so entirely practical, and almost any building on the place can so easily be converted into one. Just be sure to provide plenty of fresh air, and yet have their roosts entirely out of a wind and never near cracks or draughts of any kind. And the feeding—this is where profit or loss often occurs; too many feed expensive food with no results. Provide an abundance of green feed—green rye, clover, lawn clippings, cabbage, turnips, beets, potatoes, alfalfa meal; there is a long list and all good; the next in importance is meat; ground bone is possible; if you have no grinder, see if some of the meat shops in your town have one; often where a number of people will take the ground bone a shop will put in a mill and utilize all their bones in this way, as they can be ground with the same power as their sausage, hamburger, etc. If green bone cannot be obtained fresh depend on beef meal, blood meal,

beef scraps, cracklings, etc.

Almost any butcher can provide you with a few fresh meat scraps occasionally and you can grind them through your sausage mill or food chopper. Work? oh, yes, it is some work, but no lazy person is going to succeed whether it be in poultry or whatever. The range hen in summer needs but little else when she has plenty of green food and bugs, and keeps laying all the time. Provide a deep, clean litter, into which throw all grains and make them scratch it out; this provides the essential exercise without which neither chickens or eggs can be at their best. Kitchen and table scraps provide variety, too. Use your judgment regarding hopper feeding. Personally, I have time and thoroughly enjoy feeding my birds every day. Where they have worked hard filling their crops with grain during the day, I think a warm, fresh, crumbly mash is good for them at night and finishes filling their crop to keep them warm through their roosting hours. Grit, shell and charcoal keep before them, all the time, and always the all important dust bath. Keep your roosts, nests and eggs

clean, the latter in a moderately cool place, and if you don't succeed with poultry it will not be your fault—but, you'll succeed.

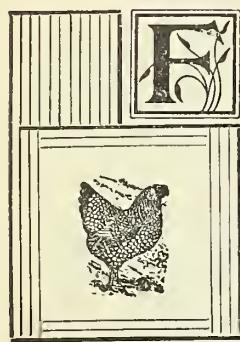
Cockerels mated to pullets will do well enough; but, in the experience of the writer, there are stronger chicks from a cock bird mated to pullets, or a cockerel with hens. Much, however, depends upon the general condition of stock. In referring to cockerel or pullets is implied birds under one year of age.

The looseness of the bowels of a fowl generally is due to something it has eaten. Increase the amount of middlings in the mash, and add a teaspoonful of charcoal every day to each quart of soft food. Fowls should have charcoal at least twice a week.



The County Poultry Organizations

By D. M. OWEN, Athens, Tennessee

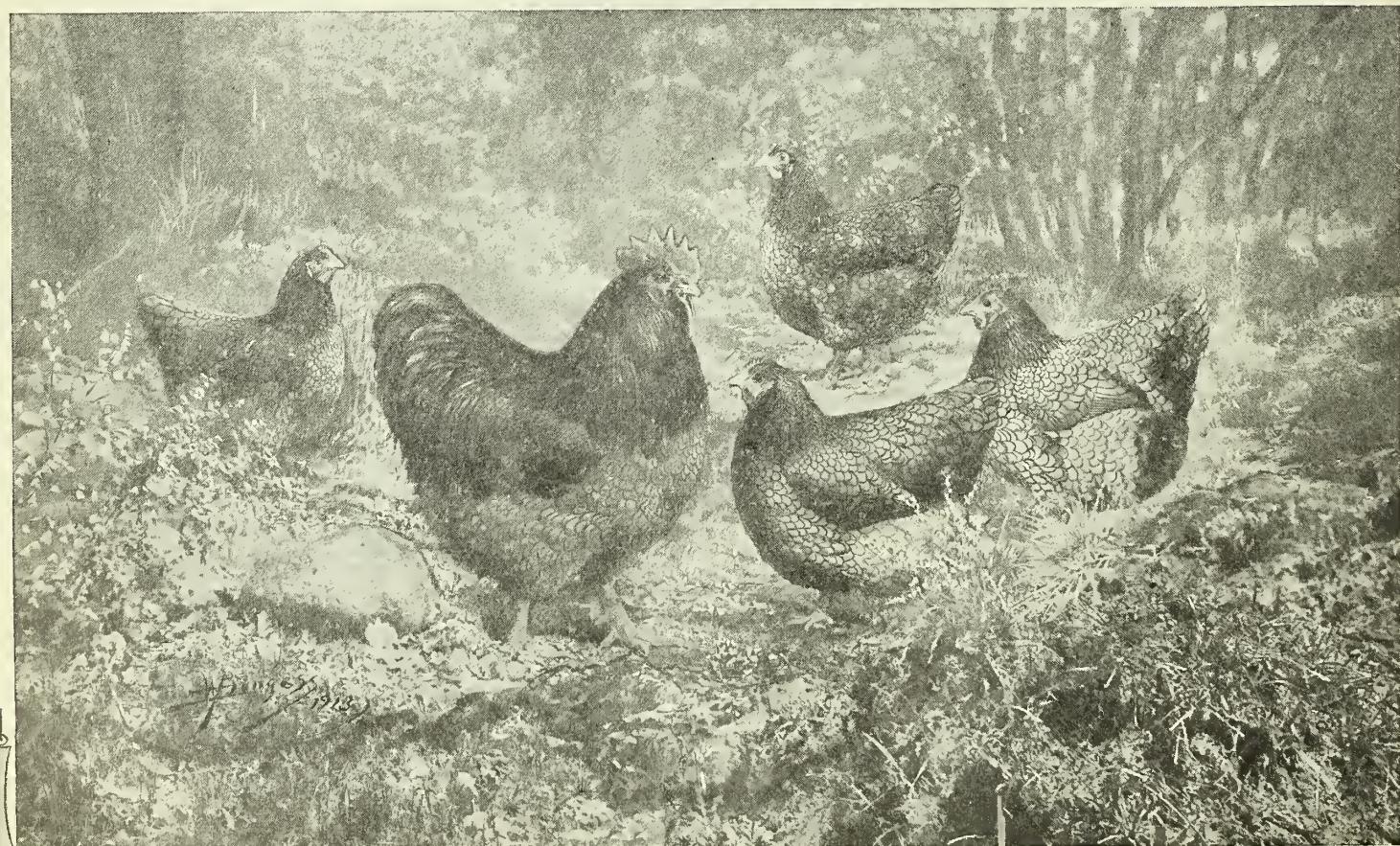


ROGER MILLER'S article, "The Poultry Industry of East Tennessee," in your February issue should not only be in the hands of every poultry breeder of East Tennessee, but it should be placed in the hands of every board of trade and each member of every county court in East Tennessee. The time has passed when East Tennessee can look to her big corn and wheat crops and her hogs for her revenue; she must look to the smaller crops, such as strawberries, tomatoes, etc.,

and her greatest opportunity is her poultry. Poultry culture should receive more attention than anything else, and the fact is it is receiving less. Today East Tennessee is receiving more net cash revenue from her poultry than any other product. What would she receive if poultry received the same attention from our county courts, boards of trade and agricultural organizations that the corn, wheat and cattle does? The county courts all over East Tennessee are aiding the boys' pig clubs and the girls' canning clubs as they should. What are they doing for the poultry industry, which outclasses them all in number of families engaged in its production and in the amount of revenue it brings into each county? Whose fault is it that this is the case? Is it not to a great extent the poultrymen's fault? Have they brought their claims before the county courts and boards of trade and asked their cooperation? Every county in East Tennessee should have a good poultry organization. Recently in McMinn county a girls' canning club was organized. We already had a boys' pig club. Prizes are given them each fall for superior production. We also have a boys' corn club which our county court aids by appropriation. As more people are interested and engaged in production of poultry than either corn or hogs, we think by proper effort the county court in each county could be prevailed upon to make an annual appropriation to aid the poultry industry. We recently decided to make an investigation as to how many in McMinn county were breeding standard poultry, and we were surprised to find several hundred fam-

ilies in this county were breeding standard poultry and we found nearly every one of the leading, and especially the utility varieties, represented. We then went to work to get up a list of prizes to be awarded on poultry this fall at same time prizes are awarded boys' corn and pig club and girls' canning club. We had no trouble whatever in raising a nice list of cash and special prizes for poultry. Our business men were more than willing to contribute whatever we asked. They all said they hoped to see the poultry interest looked after and would give their aid. We find that although many are breeding standard poultry in this county, none are getting anything more than ordinary market prices for their fowls and eggs. Many birds worth \$5 to \$25 each have gone to the market in this county at 50 cents each, simply because the breeders are not doing anything to get prices they should have. Now we have issued a call for the organization of a county poultry club which will meet once a month to discuss poultry matters; best breeds for eggs, best breeds for broilers, best time to market poultry, how to prepare poultry for market, etc., will be subjects for discussion. Prizes will be given each season for best specimens of each variety, and we hope this will result soon in a regular county poultry show each season. Now, we find that if some one poultry breeder or some one interested will take hold of this matter in each county he can get all the encouragement he could ask for. If this is done in each county soon we will have a poultry show in each county every season and a grand central show at Knoxville every winter. It can be done, brother poultrymen. Let's do it. We represent the largest industry of East Tennessee. Let's be heard from. We can not only help ourselves, but we can do East Tennessee much good. We can double her revenue on poultry and make East Tennessee one of the most desirable sections of the United States.

Try to increase the circulation of poultry literature in your county. The Industrious Hen should have 500 subscribers in each county; breeders who have standard bred poultry should advertise it and get what it is worth. If the breeders in any county of East Tennessee wish to organize a poultry association, I would advise them to write Mr. J. H. Dinwiddie, New Market, Tennessee.



FIRST PRIZE S.C. BLUE ORPINGTON PEN ST. LOUIS Mo. OWNED AND BRED BY WM. COOK AND SONS, ORIGINATORS OF ALL THE ORPINGTONS. SCOTCH PLAINS, N.J.

Cross-Breds--But Not Crossly Written

By J. H. PETHERBRIDGE, Mt. Airy, Philadelphia, Pennsylvania



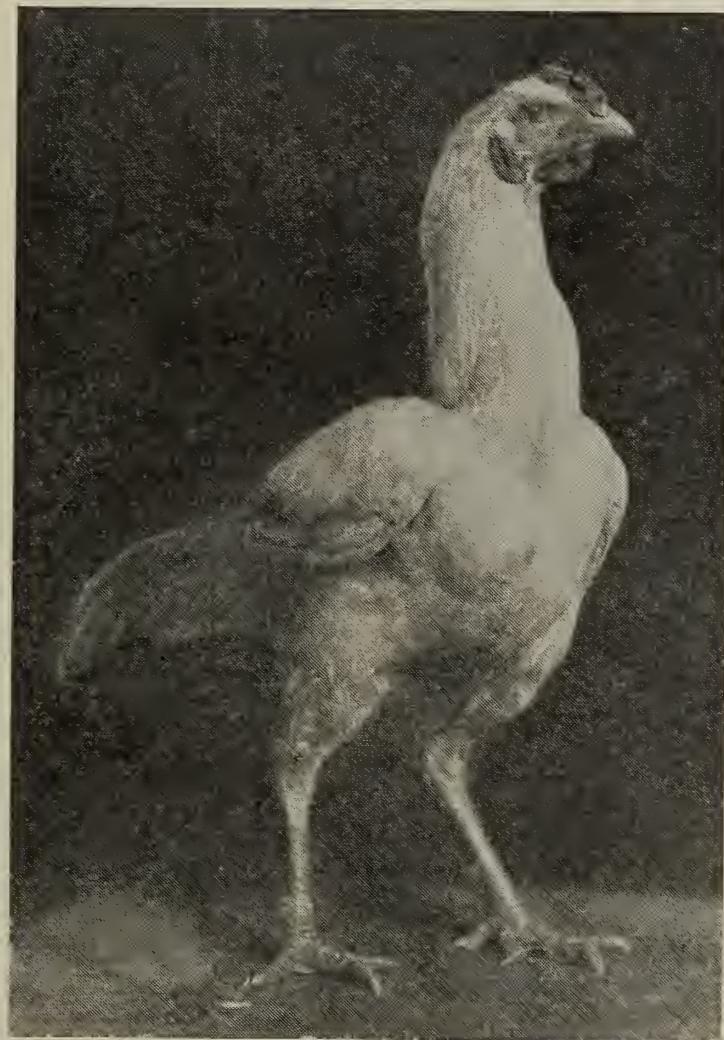
N THE deserved publicity being given to the wonderful performance of the champion layer, C 521 of the Oregon Station at Corvallis, Oregon, we note a possible danger to true and permanent improvement in established breeds. It is stated that this phenomenal producer of 303 eggs in her first laying year is a cross-bred, the original cross being a Barred Plymouth Rock and a White Leghorn of five years ago. Professor Dryden further explains that "since then we

have been selecting each year, individuals of this cross with records of over 200 eggs to see what could be done in the way of fixing high laying characteristics. We have been following the same method of selection and breeding (from high layers) with the Barred Rocks and White Leghorns and have secured some excellent results, but up to date our best records have been from the crosses. And the professor certainly makes good his statement when he states that "C. 521 is one of five sisters that have averaged 240 and the whole flock of forty show an average of 210." Professor Dryden has every right to be proud of his Leghorn-Rocks, but we must not jump to the conclusion that this necessarily is a good cross for us to imitate; and right here lies the danger of laying stress on the fact that the 1913 champion layer is a cross-bred. As we understand it, the original purpose of the Oregon Station in making this cross was not to originate or develop a new breed, but "the object of cross-breeding was to improve the vitality," which they believed "had been injured in many pure-bred fowls by inbreeding." That the Station, encouraged and stimulated by the showing of their flock of cross-breds are nursing an ambition to launch a new breed is not all remarkable or open to criticism; may success continue to accompany their efforts. But we believe it is a serious mistake to give the impression to the amateur breeder and farmer-poultryman that the best way to build up the egg production of their flocks is by cross-breeding. They need no encouragement along these lines; about the first bee that begins to buzz around the head of the amateur breeder awakes a desire to develop a new breed, for undecided as to which standard breed he prefers, he almost invariably starts in with several and not seldom decides to try a cross along what he fondly imagines are original lines. It is said that 95 per cent of poultry products are now raised on the farms of the country and less than 20 per cent are pure-breds. It is the avowed and commendable purpose of the American Poultry Association and all state and local poultry associations to deprecate the keeping of scrubs and cross-breds and increase the interest in and demand for pure-bred fowls, but if the laity are to infer from this Oregon Experiment that after all cross-breds are heavier layers, much of the force of the argument and effort of state and

nation is dissipated. It has long been known and admitted that a first-cross of two good birds of different breeds is quite frequently a superior fowl, but popularly supposed to be incapable of reproducing themselves or transmitting their individual superiority to their offspring and yet we are told that these "five sisters" that averaged 240 eggs in a year and the flock of forty that averaged 210, were cross-breds of the fifth generation. That one of this remarkable flock should lay 303 eggs in a year might be simply phenomenal, but the performance of forty can hardly be so designated. It may be that way out in Oregon a new breed is being evolved by a union of the blood of two so dissimilar breeds, in type and disposition as the White Leghorn and Barred Rock, that will be the long desired, dependable egg-laying breed of the future.

Professor Dryden says, "We are trying to get higher egg yields in two ways—first by selecting good layers from existing breeds and secondly by crossing the breeds and selecting the best layers. We believe it is possible to get good results by the first, although the second method has given us the best results." We are not willing to assume that any favoritism was shown by the Oregon Station in this comparative breeding test between cross-breds and pure-breds, but with their interest naturally aroused in favor of the former, because it represented their thought, it is reasonable to presume that if they unconsciously "played any favorites" it was not among the pure-breds. "The object in crossing," says Prof. Dryden further, "is to improve the vitality of the stock, as a great many of the pure-breds have been injured in vitality by close breeding or inbreeding for show points." Evidently then the first thought was not to develop a new breed; that the crossing gave them the desired object, increased vigor or vitality has been amply evidenced, but it has not made clear that they did everything possible and needful to build up the vitality of the pure-breds along their respective breed lines in this competition.

State Experimental Stations and National Egg-Laying Contests have and are doing much to improve the



"Wynnewood Chief". White Cornish Game Cockerel, winner of 1st prize American Cornish Club Show, Warrenton, Va., Dec., 1913; Augusta, Ga., Nov., 1913; National Conservation Exposition, Knoxville, Sept., 1913; Morristown, Tenn., Dec., 1913. Bred and owned by Mrs. A. S. Gorrell, Morristown, Tenn.

great American hen along utility lines and the increasing of her efficiency as a producer of wealth; while as yet their results have indicated no particular established breed as the one-best-laying breed, their pens have been made up, with very few special exceptions, of groups of pure-bred fowls only. And we sincerely trust that this will continue to be the rule and practice. When we can write "finis" to this effort, if we ever can, it will be time for us to develop a new and improved egg-laying breed. "The whole cannot be greater than its parts." We cannot originate a better breed until we have brought the breeds from which it must be evolved, to their best. One thing is quite certain despite the seeming contradiction of the Oregon Station experience, the great American hen will never raise her yearly average by breeding from the highest producers among cross-breds unless the whole science of poultry breeding is on a wrong basis.

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THE INDUSTRIOS HEN

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APRIL ISSUE—April issue of The Industrios Hen will be mailed by the 10th of that month. Advertisers will please send change of copy at once. All changes must reach us by April 1st. Send yours today.

Another "Poultry Doctor"

We are glad to announce that Mr. J. J. Shellzok, of Chicago, Ill., has been engaged to conduct the Poultry Disease Department of The Industrios Hen. Mr. Shellzok is an acknowledged authority on poultry diseases and is at present formula editor of several leading poultry magazines. We invite the careful reading by our readers of our disease department each month.

J. A. Thornhill

With this issue Mr. J. A. Thornhill, of Hartselle, Ala., retires as editor of the Poultry Disease Department of The Industrios Hen. Mr. Thornhill has been in charge of this department for several years, and has conducted the same with credit to himself and great satisfaction to our readers. Mr. Thornhill retires because his recent business engagements are such as to prevent him devoting sufficient time to the editing of the Poultry Disease Department. We wish to announce our high estimation of Mr. Thornhill as a gentleman and his ability as a poultryman, and to say that the old Hen will ever feel grateful for his loyal support in the past. May continued success crown his efforts in his field of labor.

Special Poultry Day

In a recent letter from Mrs. Oliver Payne, Crossville, Tennessee, she asks the question: "Why cannot Tennessee have a special 'Poultry Day' just as Texas has her 'Onion day?'"

The idea is not a bad one, and would be the means of stimulating interest in poultry culture. In Texas on Onion Day every one interested eats onions, giving some to the neighbors and friends not yet interested enough to buy for themselves. We could do the same—serve poultry and eggs in our homes and give to our neighbors, who, perhaps, have not intended serving, and they in turn, may pass the good work along until a majority of Tennessee families will be celebrating Poultry Day.

Mrs. Payne suggests that breeders of utility stock should find a ready sale for their products at least a few days previous to Poultry Day each year, and in the larger

towns a building might be rented by the producers where they could all meet with their products and discuss the pros and cons of poultry raising, thereby strengthening the mutual band without which no enterprise can succeed.

That East Tennessee Poultry Association

Several Prominent Poultrymen Want The Association Re-organized.

In the February issue of The Industrios Hen there appeared an article from the pen of Judge D. M. Owen, of Athens, Tennessee, in which he urged the re-organization of the East Tennessee Poultry Association. Expressions from poultrymen throughout East Tennessee were invited through the columns of The Hen, and several have responded, and heartily so, in favoring this much needed association. We print below four of these letters, and will probably publish others in our April issue. Read these letters, and if you favor the re-organization, so express yourself in a letter to The Industrios Hen.

Abingdon, Va., March 2, 1914.

The Industrios Hen Co., Knoxville, Tenn.

Gentlemen: Just read Mr. Owen's article in The Hen in regard to a show in Knoxville, and will say that I will be glad to join the association and will do anything in my power to help it along. Please let me know if they form the association.

Yours truly,
M. H. SMITH.

Cleveland, Tenn., Feb. 28, 1914.

The Industrios Hen, Knoxville, Tenn.

Gentlemen: In reference to an article in the February issue of The Hen by D. M. Owens, of Athens, Tenn., I want to say as an exhibitor at the old East Tennessee Poultry Show at Knoxville, for several years, and as long as this show was run by such men as Henderson, Carter, Jennings and several others just as good, Knoxville pulled off the best and most satisfactory poultry show ever held in the great South. Now, as Nehemiah of old became interested in rebuilding the Temple at Jerusalem and he went to work, believing it could be done, so let us who have experienced the great good from the old East Tennessee Poultry Shows held in December and January at Knoxville, Tennessee, go at it in earnest and pull off one of the best shows there next winter that has ever been pulled off in our Southland. Can we do it? Yes, we can do it, and all it will take is to begin now. Every fellow put his shoulder to the wheel and give her a little push and it will go.

I can say for the White Hill Poultry Farm people, we are for the East Tennessee Poultry Association, first, last and all of the time.

A. J. LAWSON.

Sevierville, Tenn., Feb. 24, 1914.

Editor Industrios Hen, Knoxville, Tenn.

Gentlemen: I am well pleased with the suggestion Judge D. M. Owens makes in February issue of The Hen concerning the re-organization of the East Tennessee Poultry Association. I heartily indorse the statement he makes about the winter show. Last October I spent both time and money to show a few of my inferior birds at the Conservation Exposition, Knoxville, Tenn. My best old birds were going through the moult and I had to depend on young stock, which was not matured enough to be in the best of condition and this is very unsatisfactory. Right here I would like to say (and it ought to be put in practice) that I long for the time to come when we poultry breeders will exert more of our energies toward the number of eggs laid, and the vigor and strength of our birds instead of trying so hard to produce a bird that will win the blues.

I would like to know that we would have a big show January next, at Knoxville, and I promise that Watson's Hamburgs and Leghorns will be "Johnny on the spot," and I feel safe in speaking for Sevier County, that she will be well represented as she has a number of good breeders and we never fail to carry off our part of the premiums in any show we have entered.

Yours for more and better poultry,
W. E. WATSON.

"BLUE-BAR" EGGS FOR HATCHING

ARE THE BEST

BARRED PLYMOUTH ROCK EGGS that you can buy anywhere. Never before has it been my privilege to mate up such a wonderful lot of birds. Every cockerel-bred pen is headed by a first prize male, and every pullet-bred pen is made up entirely of prize winning females. Think of it, where before have you had an opportunity to buy eggs from such matings? Why not write and find out when and where every one of these winnings were made? A grand total of two hundred and nineteen silver cups, ribbons and special prizes won by my "Blue-Bars" in the last three years. Some fine husky cockerels, the kind you would be proud to own, at \$3.50 to \$10.00 each. Eggs from matings of demonstrated quality, \$2.00 to \$10.00 per setting. Incubator eggs, \$8.00 per hundred. Send for my handsome new catalog. It's free.

L. H. READE

(Highland Park)

RICHMOND, VA.

Morristown, Tenn., Feb. 23, 1914.

The Industrious Hen, Knoxville, Tenn.

Gentlemen: I have just finished reading the letter in the February Hen, written by Judge Owen, and I agree with him when he says that no section of the United States is better known than East Tennessee for its large production of poultry, and perhaps no other section depends more upon poultry for its cash income than East Tennessee, and I would say especially around Morristown. I am like Judge Owen in regard to the East Tennessee Poultry Association. I have often wondered why the East Tennessee breeders would let the Association stop and stand as long as they have. Why not get together now and commence the work to have the largest show in the South next winter at Knoxville? Now is the time to commence. I think that every breeder in East Tennessee will join this association and lend a helping hand. I, for one, will do all I can to have the largest show in the South in Knoxville next winter, and I am sure that all other breeders in Tennessee and adjoining states will do the same. There is no reason why the East Tennessee Poultry Association should not be the largest of its kind in the United States. If all members will do their part, I am sure that The Industrious Hen will do her part. (If it was something to sell, I know she would sell it before you could get it ready to ship.) As Judge Owens says, I think the officers of the East Tennessee Poultry Association should issue a call for a meeting, and I think that every East Tennessee breeder should come. This is not a very busy season now and I think most all of them will come, and to get a large attendance on that day, will be a big start towards a big show. If every member of the Association will work to that end, Knoxville will have the largest show in the South next winter.

L. M. BARRETT.

American Poultry Association Nominations

Statement showing the five candidates for each office, receiving the highest number of votes, and the number of votes cast for each nominee for all offices of the Association in the annual election, 1914:

President

E. B. Thompson, Amenia, N. Y.	490
E. E. Richards, Cedar Rapids, Iowa	105
A. A. Peters, Denver, Colo.	10
Henry Steinmesch, St. Louis, Mo.	8
Reese V. Hicks, Topeka, Kansas	7

First Vice President

Jos. Russell, Toronto, Ont.	348
A. A. Peters, Denver, Colo.	144
W. C. Cleckley, Augusta, Ga.	95
Louis Lee Haggin, Lexington, Ky.	11
S. J. Hopper, Dallas, Texas	5

Second Vice President

A. A. Peters, Denver, Colo.	263
Louis Lee Haggin, Lexington, Ky.	173
Jos. Russell, Toronto, Ont.	41
W. C. Cleckley, Augusta, Ga.	23
Geo. O. Brown, Baltimore, Md.	5

Secretary

S. T. Campbell, Mansfield, Ohio	914
M. A. Northup, Orangeburg, N. Y.	15
John A. Murkin, Nashville, Tenn.	12
O. L. McCord, Peoria, Ill.	9
T. E. Quisenberry, Mountain Grove, Mo.	4

Executive Committee

Earl Hemenway, South Haven, Mich.	277
H. H. Collier, Tacoma, Wash.	260
C. M. Bryant, Boston, Mass.	254
N. R. Nye, Leavenworth, Kansas	203
S. J. Hopper, Dallas, Texas	158
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M. F. Delano, Vineyard Haven, Mass.	51
M. F. Schultes, Bartlett, Tenn.	50
Henry Steinmesch, St. Louis, Mo.	41
R. V. Hicks, Topeka, Kan.	28
Richard Oke, London, Ont.	21
W. M. Coates, Vancouver, B. C.	19

Place of Holding 39th Annual Meeting

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Houston, Texas,	12

Time of Holding 39th Annual Meeting

Second week of August	391
Third week of August	72
First week of August	22
Fourth week of August	19
First week of September	13

O. L. McCORD, Election Commissioner,
929-30 Jefferson Bldg., Peoria, Ill.

Properly Housing Your Little Chicks

It is useless for a person to hatch off a large number of little chicks and not be prepared to take care of them after they are hatched, as many people are now doing, neglecting this most important part of the things that will bring success. By all means before your little chicks are hatched have your brooders ready for them. They should be dry and placed under sheds or in a house where you can attend to them without getting out in the weather. The same thing should be done with hens that carry little chicks. A good dry room or roomy coops should be provided for your hens and chickens. Usually through March and April we have lots of rainy weather and unless you are prepared to take care of your little chicks and keep them dry and out of the weather you can not possibly raise a large per cent of them.

It is not so much the number of chickens a person hatches, as it is the number they raise.

Often people will allow little chicks to stay in brooders too crowded and get weak almost before you know it. Watch closely and before this time comes divide them and give them sufficient space and room to avoid a loss at this particular time.

Above all things, do not allow the old hens to have their liberty with a lot of little chicks. They will run them to death or weaken their constitutions during the first few weeks of their life if they are given their liberty. A large vacant room with two or three window lights in it so that the sun can shine in freely is one of the best places that a brooder or a hen and chickens can be kept in. By placing a coating of dry coarse sand over the floor and then covering the floor with finely cut alfalfa hay a person can keep forty to one hundred chicks in a room of this kind and usually raise a majority of them.—Loring Brown, Atlanta Journal.

Valuable Information on Poultry Feeding

By H. C. DICK, Knoxville, Tennessee



HERE are a good many people who, when they read some of the articles in the papers on feeding and the different rations fed and the terms used, that get all mixed up and don't know any more than when they began to read the article. They read about "Red Dog," "Johnny Cake," protein, carbohydrates, nutritive ratio, and a hundred other terms, and say, "Why don't they write so you can understand them?" With this in view, I will see if I can make a few of the terms plainer. Food is any substance that a fowl may eat for building up wasted tissues and maintaining natural conditions. Besides water, which is present in all foods, the different compounds of which solid animal foods are composed have been grouped into four classes—carbohydrates, fat, protein, and ash. All food elements are not completely digestible and the value of a poultry food depends largely on the amount of these food constituents that can be digested by the fowl. Food that has been digested forms blood, and the blood goes all through the system of the fowl, and sustains life. By the blood the nutritious parts of the foods are assimilated; eggs are composed largely of the same kind of materials that are used in the making of flesh and blood. All parts of the body are nourished by the food the fowl eats. The water the fowl drinks and that which is eaten in the food makes up more than 50 per cent of its live weight. The fat constitutes 20 per cent; the ash, 4 per cent, and the protein more than 20 per cent. Almost all grains fed the fowls contain more carbohydrates and fats and less protein (and ash) than the fowls require. The muscles of the fowl's body and the materials constituting its eggs are largely made up of protein. Protein is present in most all foods, but only in small quantities in most foods, which makes it the most costly part of the fowl's ration to supply. Dry grains, meals and hay contain from 7 to 10 per cent water; grasses, green plants, roots, and unripened grains contain from 60 to 70 per cent water. The flesh of a fowl and its eggs are from 41 to 65 per cent water. A dozen fresh laid eggs contain almost a pound of water. You may well see from the above that water is of great importance. The greater portion of the solid part of poultry food is composed of carbohydrates or nitrogen-free extracts as they are sometimes called. Carbohydrates are composed largely of starch, sugar, gums, vegetable acids, and crude fiber. Carbohydrates are used by the fowl to supply energy, to produce animal fat, oils, and to make and maintain body heat. Foods that contain a large part of crude fiber are known as roughage, and those that contain but little are known as concentrates. The sole value of the crude fiber (that part of the food that the fowl cannot digest) in a food lies in the fact that as it passes through the digestive organs it distends them and acts as an irritant that stimulates their mechanical action and helps them in digesting their contents. The part of food known as fats or oils, differs from carbohydrates, in being able to produce more heat. One part of fat is equal to $2\frac{1}{4}$ parts of carbohydrates. Fats can be stored up by the fowl for fu-

ture use. That portion of food containing nitrogen is known as protein. The lean meat of the fowl and the white of an egg are composed largely of protein. Protein can take the place of fat but neither fats or carbohydrates can take the place of protein. If the food was burned the part that would be left would be known as ash or mineral matter. Fowls do not contain enough ash; for this reason they must be supplied with oyster shells, grit, etc. Relationship between the amount of protein and the amount of carbohydrates and fat present in a ration is often expressed numerically; for example, a ration containing $\frac{1}{4}$ ounce protein, $1\frac{1}{4}$ ounce carbohydrates and fats combined, besides some ash is said to have a nutritive ratio of 1 to 5—it contains 5 times as much carbohydrates and fats as protein. A ration has a narrow nutritive ratio when the proportion of protein to carbohydrates and fats is large and a wide nutritive ratio when the reverse is true. A balanced ration contains 2 ounces dry matter, .4 of an ounce of protein, 1.6 ounces carbohydrates and fats combined. This is a 1 to 4 ratio and is known as a balanced ration.

The so-called Creeper fowls, so much talked about some years ago, were nothing more than short-legged fowls, and not recognized as a breed. They came in nearly all varieties, but more especially in the American and Asiatic classes. At one time an attempt was made to get these short legged fowls down to some standard, so as to have them uniform, but there apparently was not enough interest taken to have the idea put in practice.

IT PAYS TO ADVERTISE.

Feb. 12, 1914.

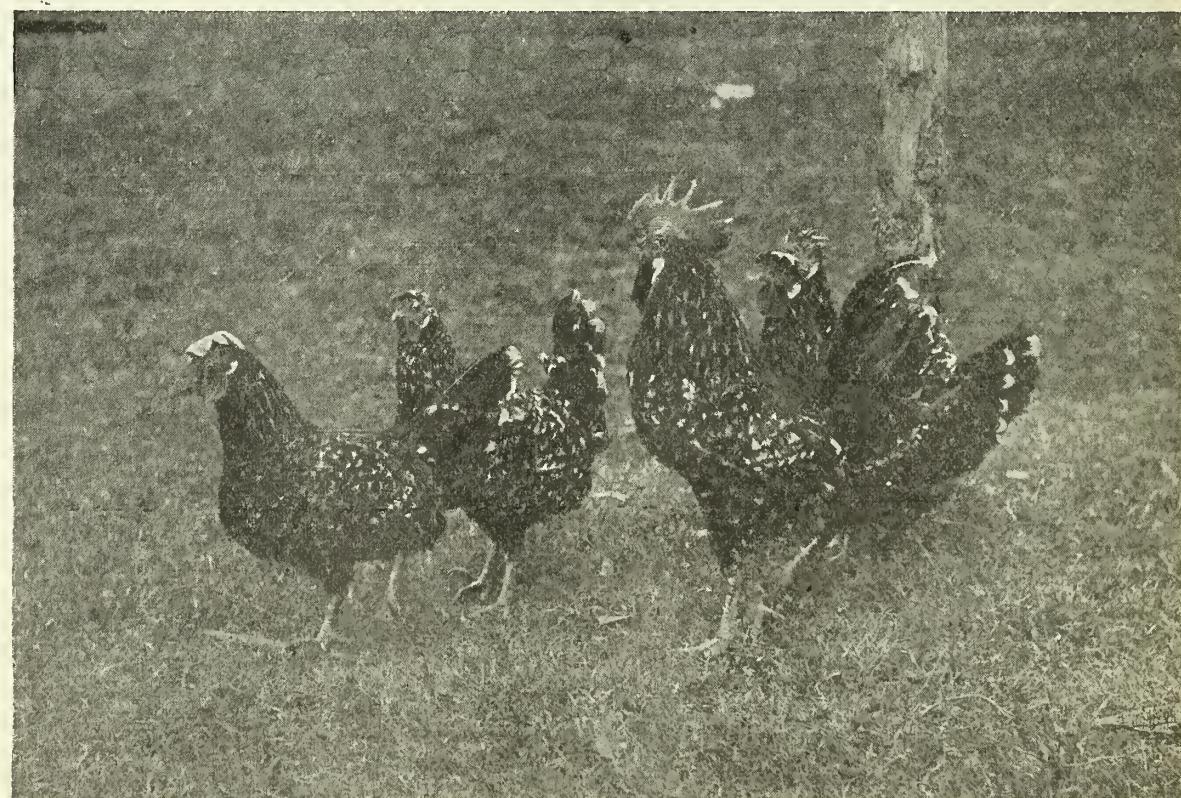
Mr. L. H. Reade, Richmond, Va.,

Dear Sir: Inclosed please find check for \$5.60, for which send me seventy (70) incubator eggs of your Blue-Bar strain of Barred Plymouth Rocks. I see your ad. in The Industrious Hen every month, and I always like to hunt for it.

Hoping to receive my eggs soon, I remain

Yours truly,

J. J. QUINN.



A pen of Anconas imported by Barrett's Ancona Farm, Morristown, Tennessee.

"Pittsburgh Perfect"

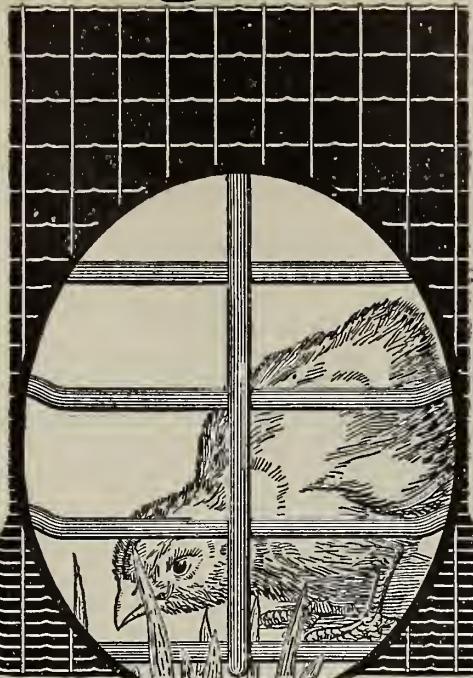
The Most Effective and Economical Chicken Fence

Save money by putting up "PITTSBURGH PERFECT" Chicken and Rabbit Fence. Not a "netting," but a fence of finest mesh, strongest fabric, best looks, longest life. These features mean fence-economy and satisfaction in the biggest sense.

Don't lose any more money through birds lost, or stolen by prowling animals. Put up this fence now and give your flock real protection.

"PITTSBURGH PERFECT" Chicken Fences are easily erected. Stand trim and rigid for years. No top or bottom boards necessary.

SOLD BY DEALERS EVERYWHERE



The only one-piece fence made. Joints
Welded by Electricity

All styles of "PITTSBURGH PERFECT" Fences are made of the same high quality Open Hearth wire, thoroughly galvanized with pure zinc. Stay and line wires are inseparably joined at every contact point by Electric Welding, an exclusive method of manufacture which gives these fences their great strength.

New catalogue, sent free, shows all designs made for FIELD, FARM, RANCH, LAWN, POULTRY and GARDEN purposes.

Write for it to-day, together with circular describing the new "PITTSBURGH PERFECT" Fancy Top Lawn Fence.

EVERY ROD GUARANTEED

PITTSBURGH STEEL CO., PITTSBURGH, PA.

Poultry Shows and Associations

By EDW. M. GRAHAM, Knoxville, Tennessee

NEW POULTRY ORGANIZATION

Tuesday, Feb. 10, was poultryman's day in Cookeville, a large number of prominent poultry breeders from over Tennessee having assembled here for the purpose of discussing problems in chickens and ducks and to organize themselves into an association, to be known as the Tennessee Central Poultry Association.

The new organization proceeded by electing officers and the appointment of an executive committee, which are as follows:

President, J. C. Vaughan, Lebanon. 1st Vice President, O. W. Thomas, Nashville.

2nd Vice President, J. A. Dinwiddie, New Market.

3rd Vice President, H. F. Carpenter, New Middleton.

Secretary, J. W. Gillem, Cookeville. Treasurer, J. W. Chilcutt, Cookeville.

Executive committee of eleven: J. C. Vaughan, Lebanon; O. W. Thomas, Nashville; J. W. Gillem, Cookeville; J. W. Chilcutt, Cookeville; A. G. Morgan, Cookeville; Rutledge Smith, Cookeville; Dr. C. L. Gray, Lebanon; E. L. Doak, Mt. Juliet; S. A. D. Smith, Livingston; O. B. Rector, Crossville; W. W. Wilhoite, Monterey.

This enterprise should have the hearty support of every one who is in any way interested in the uplift of this important line of work.

The next meeting of the association is to be held at Lebanon about the middle of March.

The Williamsport Poultry, Pigeon and Pet Stock Association have selected as dates for their 1914 exhibition, Nov. 17th to 20th, opening on Tuesday and closing on Friday. This will make their show come one week earlier than it has for several years past, and they trust that all their old exhibitors, as well as prospective exhibitors, will take notice of the dates and get their chicks out accordingly. They feel that in their judges they are not surpassed by any show in the country, and that all exhibitors will be pleased to learn that Henry P. Schwab, Richard Oke, Charles Nixon, J. C. Punderford and F. I. Bradford have been selected as the judges. This season they will make an entirely new mailing list, and ask all prospective exhibitors to write for premium list. James T. Huston is president of the association, but address all communication to the secretary, George J. Hanks, 35 West Fourth St., Williamsport, Pa.

ANCONAS

Winners Madison Square Garden, Philadelphia, Baltimore, Atlanta and elsewhere.

Exceptional values in show and utility stock.

Birds warranted to WIN!

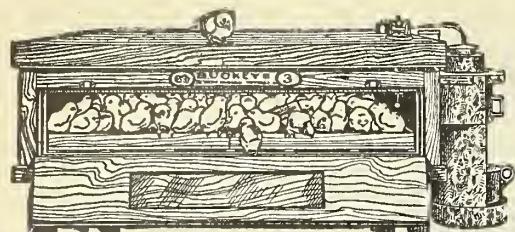
H. E. PORTRUM
Rogersville, Tenn.

WHITE WYANDOTTES

Winners and layers. Have sold my Reds. Will devote my time to Wyandottes exclusively. Eggs, \$2 and \$5. C. A. ADAMS, Route No. 1, Fairburn, Ga.

POULTRY FENCE





Anybody Can Hatch Chickens With a "BUCKEYE"

That statement means exactly what it says. It makes no difference what kind of incubator you have used before, nor whether you have ever used any at all. When you buy a "BUCKEYE," you get absolutely the best there is in incubators. It will give you successful hatches every time. We are so sure about it that every machine we sell, no matter what the size or price, is absolutely

GUARANTEED

By your dealer and by us

To Hatch Every Hatchable Egg

Neither your dealer nor we would make such a sweeping guarantee if we did not know that the "BUCKEYE" will do all we claim. Made in five sizes—60-egg to 350-egg capacity. Over 325,000 in successful operation.

We want you to see the "BUCKEYE" before you buy. Let us send you the name of our nearest dealer where you can see the machine in operation. We will also send you our catalog, which tells why more than 1,000 dealers prefer to sell the "BUCKEYE." We are glad to answer any questions—we want to hear from you. Write us today.

THE BUCKEYE INCUBATOR CO.,
525 Euclid Ave., SPRINGFIELD, OHIO.

Made in 5 sizes and Sold
As Low As \$10.00

ance is expected and all poultrymen are invited. J. C. Vaughan, of Lebanon, is president and J. W. Gillem, Cookeville, is secretary.

The great Nashville poultry show will be held March 9-11. A large attendance is expected. Jno. A. Murkin is the secretary and his experience in handling many former shows will guarantee a most successful exhibition.

The Southern Poultry Association of Charlotte, N. C., met recently and elected the following directors for the ensuing year: W. B. Alexander, John Bass Brown, W. R. Byford, Joseph Warden, S. H. Hackney, J. Arthur Henderson, Edgar B. Moore, J. C. Patton, A. B. Solomon, J. E. Thomas, all of Charlotte, N. C.; Gen'l. Julius S. Carr, of Durham, N. C. After electing the directors, the stockholders' meeting was adjourned and directors met immediately and elected the following officers: Edgar B. Moore, president; J. Arthur Henderson, vice president; Walter R. Byford, secretary; O. T. Hallman and E. G. Warden, assistant secretary; A. S. Harrell, superintendent; Thomas Whisnant, assistant superintendent. The president immediately appointed the executive committee, of which he is chairman. The committeemen are: Walter R. Byford, J. C. Patton, S. H. Hackney, A. B. Solomon. The officers and each member of this association are very much enthused and are beginning to work now for the next show and expect to make it (which is the nineteenth show held at Charlotte) the largest and best ever held. This show has always been considered one of the best in the South. The secretary, Mr. Byford, is a hustler and a young business man of integrity, and an enthusiastic poultryman, and says if work will

give Charlotte a good show, he expects to make it the equal of any. Uncle Joe and Ed. Warden also are working hard for the show; also, O. T. Hallman is one of the assistant secretaries.

THE INFORMED HEN

"Aren't you afraid to leave your eggs so long?" asked the old Blue Hen.

"Oh, my!" answered the White Leghorn; "I can't stay in that dark nest all the time, when the rest of you are enjoying the sunshine. It's all a mistake—this staying in the nest so closely. Heating the eggs thoroughly once a day will do just as well."

"Humph!" ejaculated Mrs. Blue. "But it is something I should be afraid to risk."

Time passed.

The White Leghorn had been setting off and on—mainly off—for over three weeks.

"It's about time for your chicks to begin to hatch, isn't it?" a handsome Rhode Island Red said to her one morning.

"Yes," said the White. "It's two or three days over time. I have decided to quit the nest. The eggs are no good, I fear."

"Indeed!" said the Red politely but incredulously.

"Yes. Our master often takes a hen's eggs, you know, and gives her others. I believe something like that was done to mine."

"Humph!" said Old Blue to Mrs. Red, as the White walked off, "Mrs. White has too many new-fangled ideas for her own good. Those eggs were as good as any, if she had set on them right."

A few weeks later the White Leghorn hen had another nestful of eggs, and decided to try setting again.

"This time," she said in confidence to a kind-hearted Plymouth Rock, "I mean to change my method a little. Instead of setting a little every day, I shall stay on the nest a week continuously, not even leaving it to eat."

Dixie Poultry Yards

S. C. Rhode Island Reds and White Leghorns. Winners at Tennessee State Fair, Nashville. S. C. Rhode Island Reds, 1st cock. S. C. White Leghorns, 1st cockerel; 1st hen; 2d pen, and grand silver medal offered by the American Poultry Association for the best cockerel in the Mediterranean classes. Eggs from our exhibition pens, \$2.00, \$3.00 and \$5.00 per sitting. Free range utility stock, \$1.00 per sitting, or \$5.00 per hundred eggs. We are prepared to fill orders promptly, large or small, and guarantee every transaction. Write us for prices on stock.

L. P. HUDDLESTON, Mgr. -:- STEVENSON, ALA.

McKEE'S White and Blue ORPINGTONS

Winners in keen competition. When in search of the best, just send McKee your name and address. He has searched the old world and the new, trying to find what breed best would do, and he will please you, with Orpingtons, both White and Blue, and Mammoth Bronze turkeys too. White Orpington eggs, \$3.00, \$5.00 and \$10.00 per 15. Blue Orpington eggs, \$10.00 and \$45.00 per 15. Turkeys, \$12.00 and \$15.00 a trio; \$18.00 and \$20.00 a pen. Write your wants to

McKEE'S ORPINGTON YARDS GARVEY MCKEE, WATERTOWN, TENN.
Prop. Box I. H.



This Partridge Wyandotte cock has won at 6 shows sweepstakes for best cock in show, all varieties competing. Bred and owned by Sandy Run Poultry Yards, Ellenboro, N. C., and at the head of one of our best pens.

So the chickens will come out sooner. Three weeks steady setting is too much to take out of a hen's life these pleasant days."

"O Mrs White," cried the Plymouth Rock, "that will not do. It has been tried before and found a failure."

"I'll try it anyway," she answered. If at the end of a week the chicks don't appear, why I can sit longer."

But when the Leghorn had sat a week so persistently, with neither food nor drink, she was so exhausted that she left the nest and stayed off two days.

When she went back to try setting out the allotted time she was startled to find that all her eggs were gone.

She came out to where the other hens were gathered together.

"I have lost my eggs," she said, looking very pale and frightened.

"I saw the master take them away this morning," remarked a long-legged pullet. "He said it was yours for the pot—that you could neither set nor keep from setting."

"Mercy! Mercy!" cried the Leghorn, "would he kill me? He put inferior eggs under me himself, and now I am to be blamed for not hatching them. And then he comes and takes all these eggs away without even giving me time to finish setting."

"I don't believe your way of setting pleases the master," said the Rhode Island Red. "He has ordained that we shall sit in a certain way and he does not wish us to change from that. He has chosen for us to set three weeks, and while I admit it is hard yet we must submit with patience and he will bless us with many pretty little chicks."

"Well, I don't believe all that. I think if we would persist we could eventually lessen the hardships attendant upon setting and hatching. Just because I have failed is no proof that it can't be done."

Thus spoke the White hen, trying to keep up an appearance of faithfulness to her convictions. But secretly she was much troubled.

It was not the pot that troubled her; but she had lost her eggs. The season was advanced, and she was afraid the master would not let her set again.

Nevertheless she began to lay again and when the nest was full she began to set, but the eggs were at once taken from her, and she was shut up in a box.

"Alas!" she cried. "This does indeed mean the pot or market. Oh, if I could but be given one more trial, I would sit like any old common blue hen."

She stayed in the box two or three days; then some one let her out.

"Thank goodness!" she said. "I have another chance. But now it is getting so warm that I fear I shall begin to moult."

But she didn't. She began laying again, and this time she stole her nest, making it in a corner under the house. She laid meekly without cackling; and when there were fifteen eggs in the nest she began to set. She came off every day, slip-

ALDRICH ORPINGTONS

WHITE

You can make money raising chickens if you start right with stock or eggs from the quality strain of the most popular and profitable fowls in the world, Aldrich White Orpingtons. They are the Greatest Winter Layers, mature quickly, to broiler size in eight weeks, and add to these useful qualities their hardiness, beauty and gentleness and you have the ideal chicken. Send 10 cents for our beautiful 60 page catalogue with color plates and much information on how to raise poultry profitably.

ALDRICH POULTRY FARM, 7083 N. High St., COLUMBUS, OHIO

W. C. LASSITER

MRS. W. C. LASSITER

Black ORPINGTONS

Our stock is of the highest quality. Shipped on approval. A few Norfolk, Va., winnings, January 6-9, 1914: Silver cup, 10 best birds in show; Silver cup, best male bird in show. Three other cups, and a number of specials. Lynchburg, Va., 1914: Five firsts on five entries. Stock and eggs for sale. Write for mating list.

LASSITER ORPINGTON YARDS, Highland Park, RICHMOND, VA.

EGGS--GABHART'S White LEGHORNS--EGGS

Strictly line bred ten years. Remember I have won and furnished winners for the best shows where competition is strong. Guaranteed eggs to hatch and arrive in safe condition at \$3.00 to \$5.00 per 15. Eggs from pure stock on free range, \$1.00 per 15; \$5.00 per 100. W. E. GABHART, Box M, Bohon, Ky.

QUINTIN'S

Single Comb RHODE ISLAND REDS *The Winners*

COLOR, TYPE AND UTILITY

Southside Fair, 1913: 1st, 2nd, 3rd, cock; 3rd and 4th hen; 3rd pullet; 1st and 2nd cockerel; 1st, 2nd and 4th pen.

Richmond, December, 1913: 1st cock; 3rd hen; 4th cockerel; 1st and 3rd pullet; 3rd pen.

Norfolk, January, 1914: 1st and 4th cock; 1st and 3rd hen; 1st pullet; 2nd and 4th cockerel; 1st pen.

Lynchburg, January, 1914: 1st cock; 5th hen; 4th cockerel; 1st and 4th pullet; 1st pen.

The above are some of my recent winnings in the hottest kind of competition and speak for the quality of my birds. I still have a number of good cockerels for sale at reasonable prices. Stock and eggs guaranteed as represented. Send for mating list for 1914. Visitors always welcome.

D. SCOTT QUINTIN :: Box 174 :: PETERSBURG, VIRGINIA

ped quietly about finding food and drink and at the proper time returned to her nest. Three weeks of this was a long time for the frisky White Leghorn, but she persisted; and at the end of the time she stepped out into the poultry yard with fifteen high-bred baby chicks.

"Bless my soul," said the master, who, after all, was only a fourteen-year old boy, and all the hens stretched their necks with surprised cackles at the astonishing sight.—Southern Cultivator.

"Exceedingly wise, fair-spoken and persuading."

"A man of good repute, carriage, bearing and estimation."

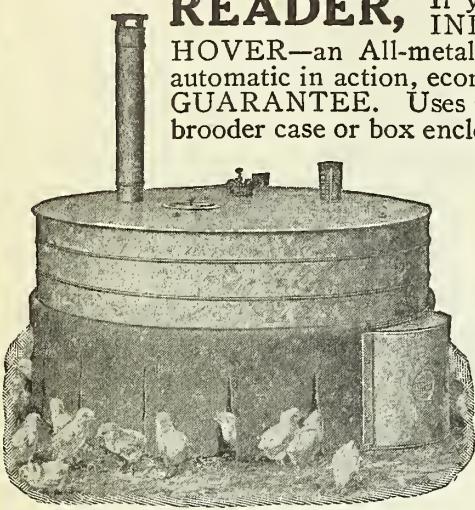
"Deserving high commendation, true applause and love."

No, we are not referring to T. R., but speaking of the poultry judge who has just awarded our cockerel a blue ribbon.

"Let us not burden our remembrance with
A heaviness that's gone;
But in our shirt sleeves hustle harder
Forget the coat in pawn."

"One touch of nature makes the
whole world kin." But "a touch" for
silver gets under our skin.

FOR INDOOR BROODING



Cyphers Portable Hover

Set it down Anywhere Indoors and you will have a Safe and Comfortable Place for the Little Chicks. "Movable" at a Moment's Notice without even turning down the Lamp Flame. Weighs 35 Pounds in use. Price, Complete, Safely Boxed, \$8.50 free on cars at all our Places of Business, except Oakland and London. Oakland F. O. B. price, \$9.50. Entirely Safe to order a sample from this advertisement. Weighs 40 lbs., by express.

READER, If you are looking for a low-cost, convenient and practical way to brood little chicks INDOORS, you will not make a mistake if you buy and use the CYPHERS PORTABLE BROODING DEVICE that is automatic in action, economical to operate and that with proper care will last many years. ALL THIS WE GUARANTEE. Uses the floor of the room for the floor of the brooding space and therefore does not need a brooder case or box enclosure. Chicks are on level of room floor all the time and do not have steps or inclines to run up and down. Can be operated in ANY ROOM or place indoors where it is safe to raise chicks or ducklings. Please read the recent sample reports here-with and send without delay for our FREE 1914 "When, Where and How" blanket circular, as described below.

REPORTS FROM CUSTOMERS

Hutchinson, Kans., July 13, 1913.

Cyphers Incubator Co., Buffalo, N. Y.

We believe that no other brooding device comes as near reaching the "acme of perfection" as does your Portable Hover. We know whereof we speak—because we have used others.

We wish to say to all poultry growers that they need not fear to use Cyphers Portable Hovers at any time of the year. At all seasons we have found them reliable. The temperature is easily maintained, even in very changeable weather. Often when our section was visited by blizzardy conditions we would worry about our little chicks, but in every case found them "snug and warm" and unharmed.

Experience has convinced us of the superiority of the Cyphers Portable Hover and in future we shall use them exclusively. They are large and roomy, are automatic in ventilation and produce strong, healthy chicks.

O. H. GUY & SON, Per O. H. GUY.
Breeders of Rose Comb Brown Leghorns.

Hillhurst Farm, Poultry Department,
Orchard Park, N. Y., June 27, 1913.

Cyphers Incubator Co., Buffalo, N. Y.

No doubt you remember our purchasing one dozen of your Portable Brooding Hovers last spring. The brooding season now being over, you will be interested to know that they have given entire satisfaction, in fact we found them to be the best and most practical Hover we ever used and we have used a number of different makes. The Portable Hover is convenient, easy to care for, economical in operation and supplies an abundance of heat.

We put about 75 chicks under each Hover. We have put more than this under a Hover with good results, but think 75 is better. The Cyphers Portable Hover has the same easy and reliable regulator that has always distinguished the Cyphers Adaptable Hover, and for anyone needing a self-ventilating, practically automatic Portable Hover we know of nothing that equals the Cyphers.

HILLHURST FARM,
John B. Casterline, Mgr.

BIG FREE CIRCULAR:

"when, where and how to use" this type of brooding Hover "for best results." Gives detailed reports from these same customers and NUMEROUS OTHERS who own and are using Cyphers Self-regulating, Self-ventilating Portable Hovers, with UNIFORM SUCCESS. Write to Home Offices, Buffalo, N. Y., or to our branch store nearest you—see opposite page. Be sure to send all orders to our place of business nearest you, thus saving valuable time, also money on freight or express charges.

Our Breeders and Their Birds

By EDW. M. GRAHAM, Knoxville, Tennessee

Harley L. Williams, Route No. 1, Moultrie, Ga., is a specialty breeder of S. C. Black Minorcas. His pens are headed by prize winners at Charlotte, Southeastern and other shows. His motto is "Bred-to-lay; and lay they do." See his ad. elsewhere in this issue.

A. J. Lawson, of Cleveland, Tennessee, writes that his White Leghorns are producing eggs by the bushel, and while he is shipping 1000 eggs per week to one party for hatching, he wants to furnish others either by the 1000 or setting. See his ad. elsewhere.

In this issue you will find the display ad. of J. T. Belue, Spartanburg, S. C., breeder of Mottled Anconas. At the big Spartanburg show, 1913, he won under Judge Gwen, 1st cock; 1st and 2nd cockerel; 2-3-5 hen; 2-3-4 pullet; 2-3 pen; 1st display—eleven prizes on thirteen entries. Write him your wants.

At the Florida Fanciers' Association, Mrs. C. A. Bulloch, Bullochville, Ga., won first pen on White Wyandottes. This makes three years in succession Mrs. Bulloch has won this prize. She has birds of exceptional quality and if in need of stock or eggs don't fail to write her. See her display ad elsewhere in The Hen.

H. S. Laval, Winnsboro, S. C., has an ad. in this issue for his Black and White Orpingtons. His black birds are from well known strains and won many good prizes the past season, including 2nd cock Atlanta, and 1st at Columbia and Chester. Mr. Laval's White Orpingtons are from Kellerstrass strain and have won at Columbia, Savannah and other leading shows. Look up Mr. Laval's ad. and write him.

Every poultryman should have a poultry punch, and we believe one of the best to be had is Rogers "money-back" poultry punch, manufactured by T. W. Rogers, Lamont, Iowa. The price is very small, only 25 cents for plain finish, or 35 cents for nickel plate. See Mr. Rogers' ad. in The Hen, and place your order now, so as that you will be enabled to properly mark your chicks this season.

During 1913 Wm. Cook & Sons, of Scotch Plains, New Jersey, the originators of all the Orpingtons, won 356 prizes, including 170 firsts and 105

seconds, with their Orpingtons at the largest shows in the country. This is a fine record and shows the quality of birds kept by this firm. Mr. P. A. Cook states that the demand for Orpington stock and eggs is larger than ever. They have just issued their 1914 mating list, which is free for the asking, and gives some interesting views of their plant and birds.

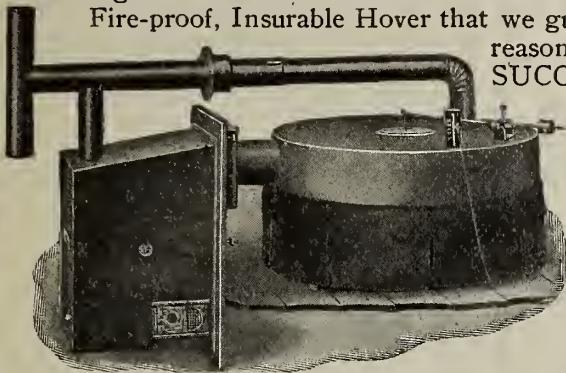
A. G. Callaway, Route No. 22, Louisville, Ky., writes us that he is obtaining good results from his ad. in The Hen. Mr. Callaway has just sent us a copy of his mating list of Champion Barred Plymouth Rocks, in which he shows 6 pens mated for the egg trade. He guarantees ten chicks from every setting of his pen eggs, or will duplicate at half-price. Incubator eggs, guaranteed 75 per cent fertile. Send for Mr. Callaway's mating list and read his ad in this issue. His birds won many handsome prizes at several leading shows this season.

Justin E. Lacy, M. D., Jasper, Tenn., breeder of Sequatchie strain Mottled Anconas, has made some fine winnings this past season. At Sequatchie Valley Fair, 1st pullet; 1st cockerel; 2nd hen; 2nd cock; 2nd pen, in class of thirty-five. At the Tennessee State Fair, Nashville, Tennessee, on eight entries, 1-2 hen; 1-2 pullet; 1-2 cockerel; 1st cock; 1st pen; silver cup. At Augusta, Ga., on four

FOR OUTDOOR BROODING

JUST AS SOON

As the ground is dry each spring it PAYS BEST to get the little chicks out upon the fresh earth, or into grass runs—and this calls for colony coops EQUIPPED with safe and trustworthy brooding hovers, or for OUTDOOR BROODERS, either factory-built or home-made. You can easily make your own outdoor brooder, Reader, by securing at some nearby store a piano box, an organ case or a large goods box and attaching thereto a CYPHERS ADAPTABLE BROODING HOVER—a Self-regulating, Self-ventilating, All-metal, Fire-proof, Insurable Hover that we guarantee to be safe from fire, to be practical in use and to last a lifetime with reasonable care. There are TENS OF THOUSANDS of these Standard Hovers in SUCCESSFUL USE in all parts of the civilized world. Please send TODAY for our latest 1914 FREE blanket circular (four pages, 11 by 18 inches in size) entitled, "When, Where and How To Use Cyphers Adaptable Brooding Hovers to Best Advantage"—mailed free, postage paid, to any address on request.



Cyphers Adaptable Hover

Fire-proof, Wind-proof, Insurable, Self-regulating and Automatic in Ventilation. Best Device in World's Markets for Use in Home-made Brooder Cases, Colony Coops, Roosting Coops and Portable Houses. Price, Complete, Safely Boxed for Shipment, \$8.50 free on board cars at all our Places of Business, except Oakland and London. Oakland F. O. B. Price, \$9.50. Entirely safe to order sample from this advertisement. Send order to place of business nearest you, thus saving time and most of freight or express charges.

REPORTS FROM CUSTOMERS

Wayne, Neb., June 28, 1913.

Cyphers Incubator Co., Buffalo, N. Y.—

After using your Automatic Adaptable Hover, and thoroughly testing it, I find they are just as represented in your catalogue. Have installed them in goods boxes and home-made brooder cases—these cases being similar to your Style B Outdoor Colony Brooder. I place fifty chicks under each hover and they are left with the hover until six weeks old. I strongly advise the use of these Adaptable Hovers to fellow poultrymen. On account of their superior construction they will last for years. In my opinion this is the best device on the market for brooding chicks successfully outdoors.

LEROY OWEN.

Tappan, N. Y., June 25, 1913.

Cyphers Incubator Co., Buffalo, N. Y.—

Early this past spring we purchased two of your Self-regulating Adaptable Hovers and think them as near perfect as can be made. We expect to get at least three more for next spring. Our losses of chicks entrusted to these hovers are small indeed, and the chicks grow fine. Our chicks under the Adaptable Hovers were never crowded, overheated or chilled in the slightest degree. We had no trouble in keeping the heat at the degree wanted, as the automatic regulating device took care of it in fine style. I fed my chicks by the Cyphers Company "deep-litter method," and they certainly did fine this year.

CHAS. E. AHRENS.

CYPHERS INCUBATOR CO., Dept. 731 Factory and Home Offices, Buffalo, N. Y.

BRANCH STORES AND WAREHOUSES NEW YORK, N. Y. BOSTON, MASS. CHICAGO, ILL. KANSAS CITY, MO. OAKLAND, CAL. LONDON, ENGLAND
41 Barclay St. 12-14 Canal St. 329-331 Plymouth Court 317-319 Southwest Boulevard 212 Broadway 121-123 Finsbury Pavement

Local Agents Wanted. No Capital Required. Write to Nearest Branch House.

entries, 2nd hen; 3rd pen; 5th cockerel class of forty-five. At Chattanooga, Tennessee, on four entries, 1st hen; 1st pullet; 1st cockerel; 1st pen; 2 specials, class of twenty-one. See Dr. Lacy's ad. in this issue.

MR. READE AND BARRED ROCKS

At the recent national meeting of the American Barred Plymouth Rock Club, held at Indianapolis, Ind., Mr. L. H. Reade of Richmond, Va., was elected a vice-president.

Mr. Reade is enthusiastic over everything pertaining to the interests of Barred Rocks and has been a live member of this popular specialty club for some time. He believes in conducting it in a strictly businesslike manner and submitted a new constitution which was adopted at the recent meeting.

Mr. Reade is also State Secretary for Virginia, of the American Barred Plymouth Rock Club, a member of the Executive Board of the Virginia State Branch of the American Poultry Association, a member of the Executive Committee of the Virginia Poultry Association, and a constant "booster" for pure bred poultry.

In a recent conversation he expressed himself as very much pleased to hear that the Barred Rock Club went on record at the annual meeting in favor of reducing the standard weight one-half pound on the Barred Rock cock and hen, as it will be remember-

ed that it was Mr. Reade who led the fight for this reduction at the A. P. A. convention at Atlantic City, ably seconded by Mr. A. R. Smith and with the approval of the foremost Barred Rock breeders of the country, including all those present at the convention.

Though defeated at Atlantic City by the White Rock breeders, this motion will be presented again at the next A. P. A. Convention. This contemplated reduction in weight will make far better egg production, finer feathering and in reality is only a case of making the standard fit the Barred Rock as now bred.

It is Mr. Reade's opinion that the present tendency of some White Plymouth Rock breeders to produce large, loose feathered birds, is not only a step in the wrong direction for beautiful feathering, but if persisted in, will ruin the egg laying qualities for which the Rocks are famous.

A COMPLETE TRAP NEST

While stopping at Staunton, Va., recently it was a pleasure to visit the large plant of the Jordon-Chapman Mfg. Co., manufacturers and inventors of the J. S. J. Trapnest, the most complete nest now on the market. They have in their plant the latest improved machinery and are fitted up to turn out a large number of nests daily. Messrs. Jordon & Chapman deserve great credit for their labors and

inventive genius in making a machine that will meet all the demands of the poultry breeder. Read their ad. elsewhere in The Hen.—Goodlin.

HICKSON'S B. P. ROCKS

In the month of January last, while attending the big poultry show at Lynchburg, Va., Mr. M. B. Hickson invited us out to his poultry farm, situated about two miles from the city of Lynchburg, and never in my life have I ever seen Barred Plymouth Rocks of such excellent quality. Mr. Hickson has a beautiful plant with an ideal location and kept in a very sanitary condition. His birds have pure air, fresh water and plenty of range. His houses (several in number) are built to suit the conditions. Those interested in raising Barred Plymouth Rocks can certainly get a good selection from his farm, either for show or utility purposes. See Mr. Hickson's ad. in this issue and write him before placing your order.—Goodlin.

SOMETHING BIG IN THE POULTRY BUSINESS

A company has just been incorporated for one million dollars in New Jersey called the United Poultry Farms. The officers of the new company are: U. R. Fishel, president; J. C. Fishel, treasurer; Percy A. Cook, secretary and general manager.

WHITE Plymouth ROCKS

Winners for years at the best shows. Are offering special mated trios at \$7.50, \$10.00, and \$15.00. Pens at \$10.00, \$15.00 and \$20.00. Cockerels, \$3.00 and \$5.00. Eggs from select matings, \$2.00 per 15. From all exhibition matings, \$5.00 per 15. Incubator lots of 50 or more at \$10.00 per 100. Send us your orders. We guarantee satisfaction.

PATTERSON FARM

FITZGERALD, GEORGIA

MOUNTAIN VIEW FARM

S. C. White Leghorns and S. C. Black Minorcas are bred for eggs and exhibition. We have won many firsts and specials at five big shows this season. EGGS FROM GRAND MATINGS NOW READY. Also incubator eggs from pens headed by cockerels from trap-nested hens, with high egg records. Write for prices on eggs or stock.

D. R. McBRAYER, Manager :: Box 4-H :: MOORESBORO, N. C.

SHAKESPEARE



did not repeat. This is a "hunch." Do not repeat the same mistake each year by trying to hatch the impossible. Know first, then incubate. That is the secret of profit in poultry raising. Magic Egg Tester, only \$2.00 each, and fully guaranteed. No expense to use and lasts a life time. Incubator specialists giving latest and best methods with every Tester. MAGIC EGG TESTER WORKS, Dept. G Buffalo, N. Y.

Emergency or telegraph orders to nearest dealer filled at once by parcel post. **PACIFIC COAST:**—Portland Seed Co., Portland, Oregon. Spokane Seed Co., Spokane, Wash. **EASTERN ROCKIES:**—Huttner Poultry Yards, Minneapolis, Minn. Bartelder Seed Co., Denver, Colo. Sturgis Hay and Grain Co., Phoenix, Ariz. **WESTERN STATES:**—M. M. Poultry Supply House, Monroe, Wis. Clark & Keller, Shawnee, Okla. Silker & Wright, Epworth, Iowa. **CENTRAL WEST:**—W. W. Barnhard Co., Chicago, Ill. G. H. Hunkel Co., Milwaukee, Wis. Petaluma Incubator Co., Indianapolis, Ind. B. Riley Haul Co., St. Louis, Mo. W. J. Yopp Seed Co., Paducah, Ky. **OHIO, W. VIRGINIA and WESTERN PENNSYLVANIA:**—Tomlinson-Lamphere Co., Detroit, Mich. J. Wilder Co., Cincinnati, Ohio. Otto Schwill & Co., Memphis, Tenn. I. W. Scott & Co., Pittsburgh, Pa. C. F. Braunlich & Co., Wheeling, W. Va. **SOUTH WESTERN:**—Bruce Poultry & Seed Co., New Orleans, La. Hargraves's Seed Store, Galveston, Texas. **SOUTHERN:**—The Lawson Co., Birmingham, Ala. Crenshaw Bros. Seed Store, Tampa, Fla. H. G. Hastings & Co., Atlanta, Ga. McIntosh & Sons, Charleston, S. C. **ATLANTIC COAST:**—Henry F. Michell Co. and Cugley & Mullen Co., Philadelphia. Saitherrwaite's Seed Store, Trenton, N. J. Southington Grain Co., Southington Conn. International Poultry Supply Co., Springfield, Mass. **CANADA:**—G. A. Cameron, Milestone, Sask. A. J. Morgan Co., London, Ont. N. D. McPhie, Hamilton, Ont. Collins Mfg. Co., Toronto, Ont. Magic Egg Tester Works, Bridgeburg, Ont.

The company is taking in the plants of U. R. Fishel, Hope, Ind., the leading White Rock breeder in the world; Wm. Cook and Sons, Scotch Plains, New Jersey, the originators of all the Orpingtons. These two plants are the largest and best in America. Also plant of J. C. Fishel & Son, of Hope, Ind., the most prominent White Wyandotte breeder. They have also taken in the best Rhode Island Red breeder, and are taking in Barred Rocks and Leghorns. It is the purpose of the company to run all the popular breeds. This company will be able to reduce the cost of operating expenses and general publicity, which will be for the benefit of those doing business with them. They hope to start operating around August 1st. Nearly one-fifth of the amount has been subscribed by the directors. The forming of this company will add a stimulant to the poultry industry, both utility and fancy.

TO DESTROY LICE

A reader of The Hen wishes to know how to get rid of lice and asked if fumigation was reliable. Of course fumigation is just the thing to get rid of lice, but you must be very cautious or you will burn the buildings. I will explain how we do it. First we close

the buildings as near air tight as possible. See that every fowl is out of the building. Procure those sulphur candles sold by poultry supply houses that are made for the purpose. Sometimes we can not get them just when we want them, and in that instance we use "brimstone". We place the brimstone in a metallic basin and cover with a number of rags that have been thoroughly soaked in melted sulphur. If you wish to make a sure job of it, saturate this with wood alcohol and set fire to it by using a long red hot iron. Don't suffer yourself to get close to this mixture, as it is rank poison and the fumes injurious if inhaled. It's not so dangerous, but so very offensive. We keep the house closed for several hours so that the fumes have a chance to reach every crack and cranny of the wood work, where germs or insects might chance to be. This method of fumigation is a good one and will destroy every living thing, lice, mites and germs. In fact, I have found mice dead around the building after they had been fumigated. After the house has been closed for several hours, open and allow the gas to escape. Make sure that every particle of the poison has escaped. We always select a still morning for the fumigation, so that we

will not have a stiff wind to contend with, and then if you begin the job of morning you will have ample time to thoroughly air the house out before night in time to get the fowls back in the building without danger of suffocation. Do not risk a boy or an inexperienced person to fumigate, as it might cost you the loss of your buildings, or they may chance to leave a valuable bird inside the building or make some serious mistake that a directly interested person would not. I never like to risk a thing of this kind to a hired man. While the job is not a pleasant one, it is a most profitable one, and will save you several valuable fowls and increase your egg production. At this time of year everything should be cleaned up, about the quarters, so that they will not have lice to contend with. Eggs are too valuable; and again the demand for eggs from breeders will be so great the average breeder will need every egg he can possibly produce without being handicapped with lice. Everything points to a heavy egg demand. The writer has been pretty thoroughly over the country this winter and I feel that I am in a position to know that I have never seen a greater interest manifested in both stock and eggs since I have been judging poultry and breeding, which dates back more than 25 years ago. The breeder that has a fine flock of fowls will have all the orders he can fill, if he lets the fact be known. The day-old chick traffic is great and those who are in a position to know, tell me they are doing a much larger business than they did last year at the corresponding date. If you have not mated your fowls, now is the time to get busy, and don't fail to clean up and fumigate, as it will pay big to get everything in a first class condition so that you can take care of the heavy egg demand. Personally, we have a much nicer business than any other time since we have been in the business. From every point of view, I am forced to conclude that the poultry business is just dawning, and the amateur that has a fancy for the business, will certainly make a killing if he procures a few fowls, or eggs and makes a start this season. Many suppose that lice takes all the profit. I have had a number of people tell me that they have done everything possible to get rid of lice and have failed. Well, just try the fumigating method and you will not be bothered with lice. Since there are 999 kinds of lice, possibly you are at a loss to know how to get rid of the body lice. Well, it's easy. When your fowls go to roost, take our lantern, and go out to the poultry house, and with an old pepper box filled with London Purple, sprinkle this poison, carefully down in the feathers on back, carefully ruffle up the feathers and get the poison down in the fluffy feathers and you will not have a louse the next day, unless it is on the thighs and they will all be gone the second day. This will clean up the lice very quickly. There is no excuse for lice, as the elimination is easy. For the red mite



BARRED PLYMOUTH ROCKS

Eggs and Baby Chicks from Exhibition and Pedigree matings. Our winnings at Chicago, Indianapolis, Cincinnati, Louisville, Nashville and Knoxville prove our quality. Do not place order until you get our big catalogue. Your name and address on a postal brings it by return mail. Write for 40-page catalogue No. 7
POPE & POPE, Box R, LOUISVILLE, KY.



Smith Sealed. Prices postpaid
 —12.30c; 25.50c;
 60, \$1.00, 100
 \$1.50; 500,
 \$6.50; 1000, \$12.50. **SAMPLES** 500, \$2.75; 1000, \$5.25.
FREE

LEG BANDS Leader Adjust-
 able. Prices postpaid: 12.15c;
 25, 25c; 50, 40c;
 100, 65c; 250, \$1.50;
 500, \$3.00; 1000, \$6.00.

Write postal or order
 now. Satisfaction
 guaranteed. Address
 THE KEYES-DAVIS
 CO., Inc., Dept. 520
 Battle Creek, Michigan

DA 976 **24**

that lives on roosts, saturate with common coal oil, and the mites on the roost are gone. Take a day each week for lice killing and you will have no lice and will make a success with poultry. If I can find a poultryman who takes care that lice are eliminated, I will show you a man that will make a success in the poultry business. Twice each year fumigate your buildings and your troubles are over so far as lice and many diseases are concerned. Since poultry and eggs are so high in the market, every possible effort will be made to supply this demand and every breeder who can furnish eggs and fowls will certainly enjoy a good business this season. Every breeder almost I have interviewed on this subject tells me he has sold out or about so and has heavy orders for eggs.—J. C. Clipp, Saltillo, Ind.

For All Poultry Raisers

For many years there has been a need for a small hatcher of some kind that would answer the want of the large or small poultry raiser alike and the W. F. Chamberlain Feed & Incubator Company of St. Louis, Missouri, seem to have solved the problem. They have placed on the market this season a very neat machine that is very attractive and is a successful hatcher as is shown by letters from persons that have used their machine. It is in the form of a setting hen and is equipped with all the usual parts of large machines. Their advertisement in another part of this paper shows a cut of the incubator and fur-



GOOD MORNING

Have You Fed Prescription No. 4?

If not you have wasted a lot of valuable feed and dissipated much HEN ENERGY. It is a scientific fact that 5 lbs. of Prescription No. 4 contains as much egg making material as a ton of oyster shell and 25 lbs. of beef scrap combined. It is the EGG MAKER supreme. Insist on your dealer getting it for you and thus save express on parcels postage. 5 lbs. \$1.00; enough for 160 quarts of feed. 1 lb. 25c, and your money back in either case if you are not satisfied after using. Prescription No. 4 is par excellence for ducks.

NABOB REMEDY COMPANY
 Box 31 :: :: GAMBIER, OHIO

ther information regarding Chamberlain's Setting Hen will be sent to any one addressing them at 107-109 Olive St., St. Louis, Mo.

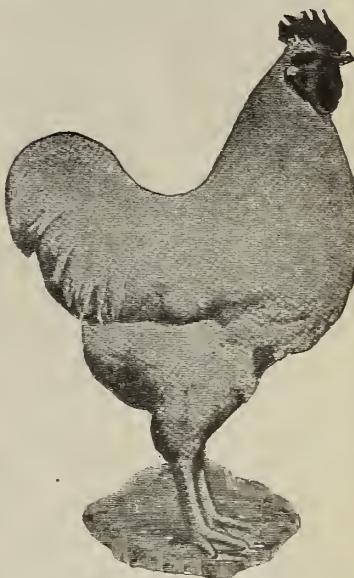
THE SECRET OF FERTILE EGGS.

No incubator can produce good baby chicks unless the hens that lay the eggs are in the very best of physical condition. Exercise all the time is one of the most important elements in producing not only numbers of eggs, but fertile eggs. One of the most successful devices for compelling the feeding stock to take exercise is the 6 in 1 Exerciser-Feeder, manufactured by the Hover-Incubator Mfg. Co., Box 187, Browns Mills, N. J. This is not only an exerciser but it is a complete feeding device with six compartments. No other feeding device is necessary as it feeds shell, grit, dry mash, charcoal, beef scraps, etc., and at the same time scatters the grain in the food. Even the man who has only a few fowls or eggs could afford to buy a 6 in 1 Exerciser because it increases the number of eggs the fowls will produce and requires his attention only once a week. The 6 in 1 Exerciser-Feeder is for sale at all dealers.

Ducks must have sand to help digestion. Fine grit helps.

CHAMPION

White Plymouth Rocks



1st Prize Cockrel—3rd Prize Cock
 At Madison Square Garden, New York, 1912-13

This winning stamps our flock as one of the best in the world, and the undisputed Champions of 1912-1913.

At Chattanooga, one of the South's greatest shows held Dec. 16-21, 1912 we won every ribbon offered, all specials, and the following sweepstakes prizes, \$35 cup for largest number of prize winning birds, and the special for the best display in the whole show. Our S. C. White Leghorns are

BRED-TO-LAY

and they do lay. They are famous the country over for their great laying qualities. There are one thousand acres of land in the Shepherd Poultry Farm and the two breeds are kept strictly separated. Write for mating list. Correspondence solicited. Address

Shepherd Poultry Farm

Quintus Shepherd, Prop.

SHEPHERD, TENN.

THE SOUTH'S GREATEST POULTRY FARM



In Leon C. Huntington's new mating list, are many illustrations of notable winners which have been reproduced from unretouched negatives. First prize cock, Chicago, and first prize hen, Detroit, January, 1914, are shown above. Mr. Huntington has developed a strain of Big Leghorns that can both lay and win. He has twenty exhibition matings, twenty-five special utility exhibition yards and twelve experimental pens, headed by imported Tom Barron English males, for 1914.

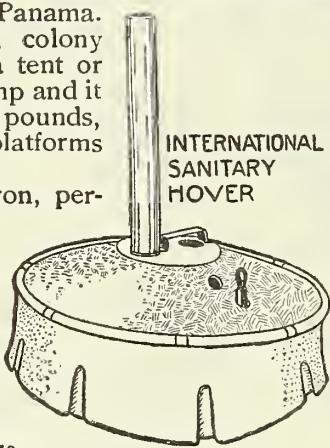
The Open Door to Poultry Profits

The experience of years in developing the world's largest poultry farm has opened the door for *you* to greater poultry profits. Out of this experience has come the 60-Egg Hatchalot Incubator, the International Sanitary Hover, and the 6 in 1 Exerciser Feeder.

Raising Chicks Right

The International Sanitary Hover has stood the test of every climate from Quebec to Panama. You can use it in any building, colony house, laying house, or even a tent or drygoods box. Just light the lamp and it is ready for service. Weighs 30 pounds, easily moved—no holes to cut or platforms to build.

Made of heavy galvanized iron, perfectly insulated, fireproof and vermin-proof. Circular, with most warmth at the curtain, preventing crowding at center and smothering of chicks, and giving them pure air always. Heat radiates from *above*, preventing leg weakness. Used by largest poultry farms and State Experiment Stations. Price \$8.50.



Hatching Chicks Right

The 60-Egg Hatchalot Incubator gives a mild heat over a wide area—not a dry heat distributed unevenly. It prevents the evaporation of moisture, which assures a healthy hatch from every fertile egg. Chicks are just as large as

the shell will permit. Made of cypress, with dependable steel and zinc thermostat. It couldn't be made better at *any* price, but it is sold at \$7.50.

Feeding Fowls Right

6 in 1 Exerciser Feeder keeps the poultry healthy and makes other feeding devices unnecessary. Large central hopper holds grain that the birds scatter in the litter, by working an agitator. Six other compartments hold dry mash, scrap, shell, etc. No food wasted. Makes feeding easy and economical. Price, 40-quart, \$4.75; 20-quart, \$3.75.

GET THE CATALOGUE.—Complete catalogue of tried and proved poultry helps, full of valuable information, sent free. Write for name of nearest dealer.

Progressive dealers everywhere can supply you.



Hover-Incubator Mfg. Co.

Box 187, Browns Mills, N. J.

S. C. WHITE LEGHORNS

EGGS! EGGS!! EGGS!!! from Lawson's Blue Ribbon Egg Machines by the 1,000 at less than half price. Get eggs from the world's best egg producers. The best by 12 years' test, large white eggs. Sell in New York for 5 cents more per dozen. For fresh, strong fertile eggs, send to

White Hill Poultry Farm A. J. LAWSON, Prop. Route No. 4 Box H Cleveland, Tenn.

BARRED ROCKS

Eggs from heavy laying strain, farm raised. Satisfaction guaranteed.

OAKLAND STOCK FARM, A. S. Bell, Mgr., R. 13, KNOXVILLE, TENN.

Poultry Disease Department

By J. A. THORNHILL, Hartsville, Alabama

Q.—I have a Buff Orpington hen that went through the moult regularly in the fall, but recently I have noticed she is losing her feathers, and on close examination I find that her feathers are dropping out by handfuls. She has lost her weight, but is otherwise in good condition. Any advice will be highly appreciated.—C. S. B., Jellico, Tenn.

A.—The writer has had the same experience. The only explanation we have for mid-winter moults is that there is a deficiency in the daily body requirements. There are certain elements in food and unless a variety is provided we are liable to experience mid-winter moults. Allow your fowls all the free range possible and provide some kind of animal protein, also all the succulent green food they will eat.

Q.—Please give some information about the vaccine used for chicken-pox by the University of Wisconsin—Mrs. W. C. R., Fla.

A.—The writer has had no experience with the remedy you mention. All I ever used for the disease you write of is: Equal parts permanganate of potash, epsom salts, boric acid and sulphate of iron, is the best roup, cholera, sorehead and chicken-pox remedy that was ever gotten together. In addition to the above diseases it will be found splendid as a preventive of white diarrhoea in both old and young poultry. It is also a good tonic for poultry during the spring and fall.

Q.—How many Barred Rock hens would you advise keeping with a vig-

Egg Producing Powder

FOR

POULTRY

MAKE IT YOURSELF

An old man has been supplying the Chicago market with the "Great Western" Poultry Food. He made it himself and made a fortune. I discovered his SECRET RECIPE and will send you a printed copy of it for 10 cents. This recipe tells how to make a first-class Poultry Food and Egg Producer at about 6 cents per package. Guaranteed.

J. J. Shellzok Formulary

Cambridge Building

CHICAGO ILLINOIS

WYANDOTTES, LEGHORNS, ANCONAS, CORNISH

Eggs and Day Old Chicks for Sale. Prices Reasonable for Quality Given. Write for Circular.

GOAT ABERNETHY

LENOIR, NORTH CAROLINA

BROWN LEGHORNS

Old time favorites. Great layers. Quick to mature. Hardy from start to finish. Very popular. Ask questions.

J. H. HENDERSON
Knoxville, Tenn.

Breeder of Brown Leghorns since 1890.

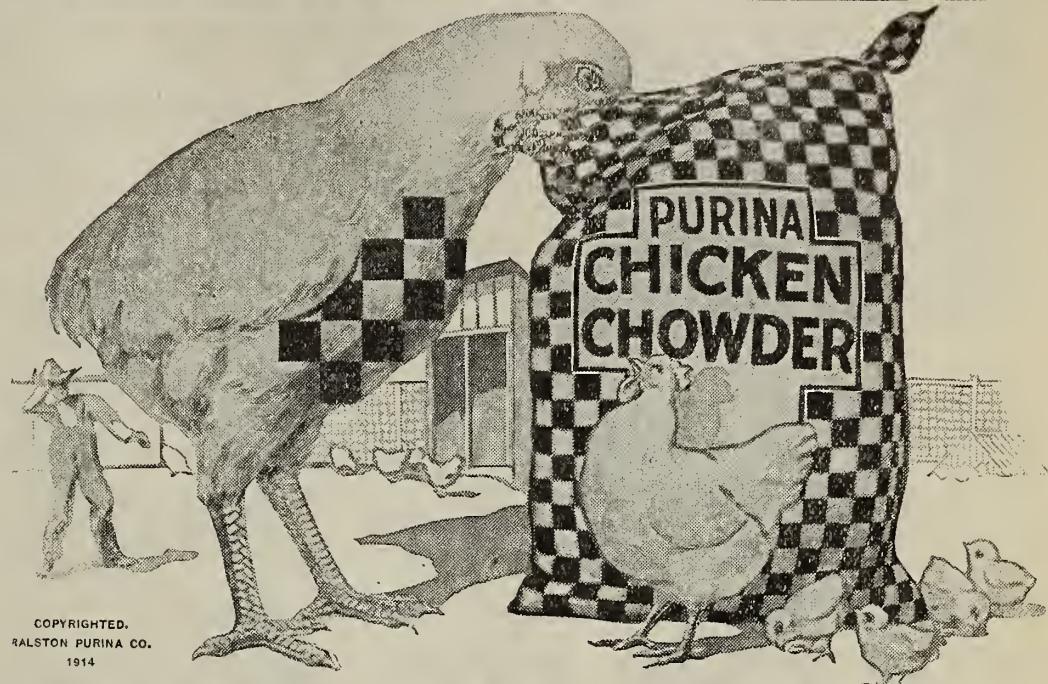
orous male? I want to ship eggs for hatching. Can I determine their fertility before they are shipped to my customers?—A Subscriber.

A.—(1). Not more than eight. (2). There is no definite way but to trial hatch them at home occasionally.

Q.—I want some information which will be highly appreciated. (1) Considering the season, which is the best plan for a beginner, to buy stock or eggs? (2) Where can I get reliable eggs? I see charcoal and grit highly recommended for poultry; how is it fed—whole or pulverized? (4) Can I manage to make out of poultry near Nashville an amount above their keep to equal \$55 per month salary? My wife's father has a few acres of land near the city which he has offered us for a home. Would you advise making a poultry and stock farm out of it?—C. T. L., Tenn.

A.—(1) It is advisable to buy stock before the new year, but as a rule it's best to buy eggs thereafter. It takes stock in new quarters some time to get in laying condition after being removed. (2) The advertisers of the different breeds in The Hen are reliable. Do not expect too much for a few dollars when ordering. (3) Charcoal and grit should always be present; it should be fed in granulated form. (4) You can, by judicious management, build up a poultry plant on the property you mention that will far surpass the office position, but do not, by any means, give up your present position until the poultry business is self-sustaining. Nashville, Tenn., will afford a ready market for all that your plant would produce—a garden, a cow, a flock of hens, a horse and buggy to take you to the office work and you can cut your living expenses in two and begin to live instead of merely existing. It will require several years to accomplish this, though.

Charcoal is one of the best preventives of disease. Keep it constantly before the young and old stock.



Chicken Chowder makes Chesty Chix.

It makes them grow twice as fast. This means large profits, heavy egg production and vigorous chicks that withstand disease. You can't afford to be without this growing feed now, any more than you could afford to be without it last winter when you proved that "if Chicken Chowder won't make your hens lay they must be roosters." Feed Chicken Chowder in addition to Purina Chick Feed and double your profits. For sale by leading dealers. Order from your dealer today.

Checkerboard Poultry Book FREE!



For your dealer's name we will send you this 48-page Poultry Book, containing plans of houses, breeding and feeding charts, space for daily egg records, cures of diseases, care of baby chicks, etc. It also contains information about Col. Purina's half price galvanized iron Chick Drinking Fountain (2 for 25c) and more details about his Automatic Chicken Chowder Feeder (50c). Write today.

Col. Purina, Purina Mills, 819 Gratiot Street, St. Louis, Mo.

BARRED ROCKS WHITE

The Best Flock Barred and White Plymouth Rocks in Middle Tennessee; also exhibition Black and Buff Cochins. Then I also have a large flock of those egg machines, White Indian Runner Ducks. Write for mating list with photos of some of my stock.

C. C. SHELLEY DECHERD, TENNESSEE

S.C. Golden Buff ORPINGTONS

For \$4.00 I will send you 15 eggs from 3 pens of carefully mated prize winning Buff Orpingtons. I only have a small flock, but they are all top-notchers and will produce their kind. At the recent Lynchburg show I made 7 entries and in hot competition every bird was placed with the lion's share of Blues.

A. A. McCORKLE LYNCHBURG, VIRGINIA

SINGLE COMB BROWN LEGHORNS EXCLUSIVELY

Winnings this season at National Conservation Exposition, Knoxville, Tenn., Sept. 1913, 1st, 3rd hen; 1st, 2nd pullet; 1st, 2nd cockerel, and 2nd pen. At Pensacola, Fla., Nov., 1913, 1st, 2nd hen; 1st cockerel; 2nd pullet; 1st pen. Our stock all bred on the single mating plan for heavy egg production. This stock also has the size and combs that show constitution and vigor. Eggs guaranteed to hatch, at \$1.50 per 15. Day old chicks guaranteed to live, at 15c. Mature stock guaranteed to please, at \$2.00 and up. Special prices on larger quantities. Satisfaction and promptness our specialties.

STURTEVANT BROS. BROWN LEGHORN FARM, Box 12, KUSHLA, ALA.



White WYANDOTTES--White PLYMOUTH ROCKS NONE BETTER IN THE SOUTH

WON at AUGUSTA, GEORGIA, NOVEMBER 7th to 14th, 1913

WHITE WYANDOTTES—3d cock; 1st cockerel; 1st hen; 1st pullet; 1st pen.

WHITE PLYMOUTH ROCKS—1st, 2d cock; 2d, 3d cockerel; 1st, 2d pullet; 2d, 3d hen; 1st, 3d pen.

WON at COLUMBUS, GEORGIA, NOVEMBER 17th to 24th, 1913

WHITE WYANDOTTES—1st, 2d, 3d cock; 1st, 2d cockerel; 1st, 3d, 4th hen; 1st, 3d, 4th pullet; 1st, 2d pen.

WHITE PLYMOUTH ROCKS—1st cock; 1st cockerel; 1st, 2d, 4th hen; 1st, 3d pullet; 1st, 5th pen.

Sweepstakes: For best cock bird and best cockerel in show. A few young birds and eggs from grand breeding pens for sale.

E. E. MACK

-- -- --

THOMASVILLE, GEORGIA

FAIR VIEW Poultry YARDS J. W. Gillem Breeders and Exhibitors

Barred Rocks, Partridge Wyandottes, Light Brahmans, Black Breasted Red Game Bantams, True Fawn and White Runners. Bourbon Red Turkeys. Over 400 Premiums 1911-12-13, at Tenn. State Fair, Rome, Monterey, Atlanta, Augusta, Cookeville, Knoxville. Eggs and stock reasonable. Satisfaction guaranteed. Write for catalogue C. For quick sale 6 hens, 1 cock Black Javas, winners at Tenn. State Fair 1913, \$15.00.

FAIR VIEW Poultry YARDS, Route 2, Box C-1, COOKEVILLE, TENN.

THEY'VE GOT TO GO

We are almost giving away some of the finest standard bred fowls in the South. 200 S. C. White Leghorns, 50 S. C. Brown Leghorns, 25 Barred Plymouth Rocks and 25 Anconas, all pullets, at the remarkably low price of \$1.50 each. Order direct from this ad., or you'll be too late. Eggs of 15 varieties of fowls, \$2.00 per setting.

NEVIN Poultry FARM, R 7, Box W, CHARLOTTE, N. C.

BEVERLEA PLANTATION POULTRY DEPARTMENT HARRY LEE HARLLEE DARLINGTON, S. C.

Owner and Manager America's foremost strains, range raised, trap-nested, White, Black and Buff Orpingtons, Partridge Rocks and Dark Cornish Indian Games. South's champion flock of Fawn and White Runner Ducks. Breeders and exhibition birds for sale at all times. Largest and best equipped poultry plant in the Southeast. Pens scientifically mated and headed by imported and Southern champion males. Our Mr. Harllee is secretary and treasurer Eastern Carolina Poultry Association, vice president Poultry Department South Carolina Live Stock Association and member A. P. A. Illustrated mating list and poultry guide free.

MOORE'S Exhibition BARRED ROCKS

Won at Atlanta, the Madison Square Garden of the South, and in the strongest competition ever seen in the entire South, the following: 1st cock; 1st cockerel; 1st and 3rd hen; 2nd exhibition pullet; 2nd pen; 1st pen mated to produce exhibition cockerels; 1st, 2nd, 3rd and 4th cockerel-bred pullet; 1st pullet-bred cockerel; and special championship on pullet-bred cockerel. Write for mating list giving full description of our birds and their winnings.

J. R. MOORE & SONS -- Box 76 -- SHELBY, NORTH CAROLINA

DIXIE'S QUALITY STRAIN

White Wyandottes have won more regular and special prizes than all others combined at three leading shows this season. The strain that is bred to lay as well as win. Eggs from the best pens I have ever mated, which means quality, \$2.00, \$3.00, \$5.00 per 15. Write for mating list.

CARRINGTON JONES, Box 145, BUNTYN, TENNESSEE

MRS. R. B. FURMAN

MRS. MARY F. SKEENE

MAPLE HILL Poultry FARM

Breeders of the best "Giant" strain mammoth Bronze Turkeys, Ringlet Barred Plymouth Rocks and S. C. White Leghorns. Our pens are headed by blue ribbon winners exclusively, having won many ribbons and special premiums at some of the largest shows in 1911-12 and 13. Write us if you need anything in our line. Eggs and stock in season.

MEMBER AMERICAN BARRED
PLYMOUTH ROCK CLUB.

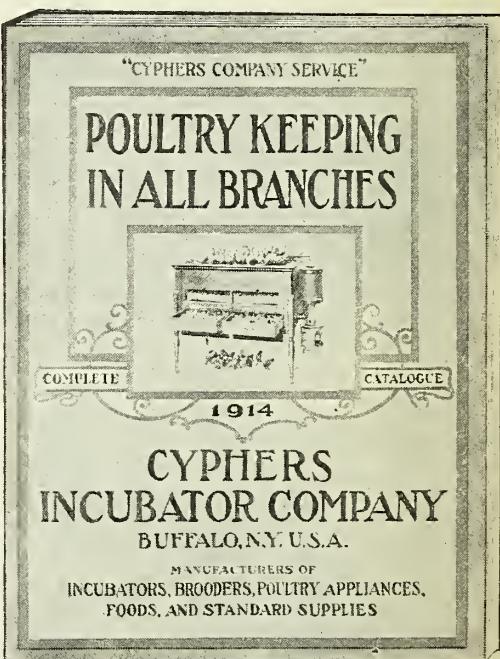
Morristown, Tenn.

MEMBER HAMBLEN COUNTY
POULTRY ASSOCIATION.

CYPHERS INCUBATOR COMPANY'S 1914
ANNUAL FREE POULTRY GUIDE
NOW BEING MAILED.

Many readers of this journal will be glad to learn that the 1914 complete catalogue and Poultryman's Guide, published annually by Cyphers Incubator Company, Buffalo, N. Y., is now being mailed; also that a first edition copy will be mailed free by the Cyphers people, postpaid, to any of our readers who will write for it and mention The Industrious Hen.

The Cyphers Company's 1914 book contains 244 pages, 7 1-4 by 9 3-4 inches in size and each copy weighs nearly one pound. It is splendidly illustrated from cover to cover, including hundreds of pictures of fowls, down-to-date poultry plant views and recent portraits of foremost American and Canadian poultry breeders.



The title of the 1914 Cyphers Company book is "Poultry Keeping In All Branches" and there are eight unusually valuable chapters which fully justify this name. They are as follows:

I.—Best Methods of Back-Yard Poultry Keeping.

II.—Small Poultry Plants and How to Manage.

III.—Profitable Poultry Keeping on Farms.

IV.—Poultry Keeping as a Regular Business.

V.—Advantages of Standard Poultry Breeding.

VI.—Production of Eggs and Poultry for Market.

VII.—Methods of Marketing to Secure Top Prices.

VIII.—Special Branches of the Poultry Industry.

These eight chapters consist of reliable information and practical suggestions on the most popular and profitable methods of poultry and egg production, either on a small or

"The Complete Records of the 20 Best Baby Chick Raisers in America."

That's the title of a book we want to send you—FREE. It tells in an interesting way how twenty people solved the problem of raising baby chicks successfully.

These twenty live in different sections of the country and had to cope with varying conditions. Their stories are instructive therefore, as well as interesting. The book is FREE. Send for it today.

RANCOCAS POULTRY FARMS,
Box 188C Brown's Mills, N. J.

large scale. The intention has been to cover all legitimate branches of the poultry business and to give helpful data and reliable advice relating thereto. These chapters are such as you would find in any first-class poultry book and not only give the reader a correct idea of what can be done in these different branches of the poultry business, but they also contain many suggestions that will be found of practical value in your daily operations.

As heretofore, this 1914 Annual Poultryman's Guide presents an "Open Letter" by Grant N. Curtis, president of Cyphers Incubator Company, wherein he tells about the company's big fire that occurred August 16th, 1912, and explains how this critical situation was overcome, the result being that the Cyphers Company is now in a new business "home" that is the largest institution of the kind in the world. Numerous pictures are shown of the new plant in full operation. Mr. Curtis in his 1914 Open Letter also points out the great benefit that the U. S. Parcel Post is proving to be to all poultry and egg producers who have taken advantage of it.

To obtain a free copy of "Poultry Keeping In All Branches" write direct to the home offices of Cyphers Incubator Company, Buffalo, N. Y., or address the company's nearest branch store, as follows, being sure to mention this journal: 12-14 Canal St., Boston, Mass., 41 Barclay St., New York, N. Y., 329-331 Plymouth Court, Chicago, Ill., 317-319 Southwest Boulevard, Kansas City, Mo., 2127 Broadway, Oakland, Cal., 121 Finsbury Pavement, London, England.

Medford, Oregon, an. 31, 1914.
Mr. J. A. Bickerdike, Medford, Oregon,

Dear Sir:—The breeding of poultry has now become a science. And this new epoch in poultry breeding has been ushered by your new book which deals with the science, as well as the art, of poultry breeding.

This valuable book shows originality of thought and your result of years of investigation and experience in the breeding of poultry. It will undoubtedly bring forth much comment and criticism, for its principles are destined to revolutionize the present-day breeding of poultry. It should be read by every breeder, and is just the book for the novice. Were I to devote my time to the raising of poultry this is the first book I should get. Yours truly, Dr. A. R. Hedges.

See the large display ad. in this issue of The Medford Trapnest Co.



Sequatchie Squaw, first pullet 1913, at Sequatchie Valley Fair, Tennessee State Fair, and Chattanooga Poultry Show. Bred and owned by Justin E. Lacy, Jasper, Tenn.

FOR PARCEL POST AND EXPRESS SHIPMENTS

Use Rippley's Perfect Egg and Day Old Chick Boxes

Rippley's Perfect 3-piece Egg Boxes

Made of extra strong corrugated cardboard. Stand 5 men's weight. Cushion effect. Dead air cells keep out cold and heat. Chick boxes have correct ventilation. Glued tape seals boxes. Will deliver chicks or eggs 3,000 miles with safety, and eggs in hatchable condition. Satisfaction guaranteed or money returned. Put up in packages of 1 dozen, 25 cts. extra for each package broken. Sample box 25 size

100 Chick Size - \$2.85 per doz. 50 Chick Size - 1.75 per doz. 25 Chick Size - 1.25 per doz.

chick or one setting, egg 25c postpaid. Use RIPPLEY'S EGG CARTONS to ship—mail—eggs to city. Your name or farm printed in 1 color. Made of strong chip cardboard. Folds flat for shipment. 30 doz. can be packed in egg case.

Catalog Free Tells all about Rippley's Boxes, Carwashers, Sprayers, Coops, Carts, Feed Cookers, etc.

RIPPLEY MFG. CO. Box 11, Grafton, Ill., U.S.A.



Barred ROCKS White



"Ringlet" Barred and White Plymouth Rock eggs, also White Indian Runner Duck eggs (pure white egg strain) 15 for \$2.00; 30 for \$3.00. Can furnish both pullet mated and cockerel mated Barred Rock eggs. Satisfaction guaranteed.

P. A. GEORGE :: HOHENWALD, TENNESSEE

WHITE HOUSE STRAIN

Our illustrated catalogue free on "White House Strain." trap-nested S. C. White Leghorns, hatching eggs and day old chicks.

WHITE HOUSE POULTRY FARMS, A. Piez & Son, Box 220, Hammonton, N. J.

WRIGHT'S White ROCKS

Have won their share of ribbons and cups at the leading shows in this section for the past three years. If you want White Rocks of quality I can satisfy you. Eggs and stock for sale.

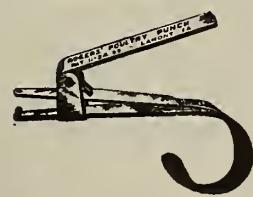
PAUL A. WRIGHT :: 653 Glenn Street :: ATLANTA, GEORGIA

Buckeyes and Buff Cochinchin Bantams

Stock and eggs for sale. From the very best exhibition matings. Pedigreed collie dogs. Everything guaranteed as represented.

MRS. H. P. HINTON :: :: IRVING, TEXAS

ROGERS' Money Back POULTRY PUNCH



Easiest to operate, lasts longest and you can see what you are doing. Your money back if not satisfactory. The original good marker. Plain finish 25c; nickel plated 35c.

T. W. ROGERS :: Box H :: LAMONT, IOWA

WARDIN'S ROCKS SWIFT'S S. C. Brown LEGHORNS

15 eggs \$1.50; 30—\$2.75; 50—\$4.50; 100—\$8.00; baby chicks hatched in Cyphers and Buckeye Incubators, ready for shipment every week, at double the price of eggs. All yards contain prize winners at Baltimore, Md., Atlanta, Ga., and elsewhere. Safe delivery and satisfaction guaranteed. Write for mating list; it's free.

G. & G. POULTRY YARDS, R. I. Box No. 17, JOHNS ISLAND, S. C.

S. C. BROWN LEGHORNS AND BARRED ROCKS

S. C. Brown Leghorns, Owen strain. None better. Eggs from two fine yards \$3 per 15. Barred Plymouth Rocks, well bred and fine laying strain. Eggs \$2 per 15.

D. M. OWEN :: :: ATHENS, TENNESSEE

The BEST in DUCKS

The very best Imported Pencilled Indian Runners. A limited number of eggs for sale at honest prices. Bred to lay. Single Comb White Leghorns and Single Comb Buff Orpingtons.

CLAYTON I. BALLARD

:-:-:-:-:-

WHITE PINE, TENNESSEE

TURKEYS ALL SOLD

Giant Bronze Turkeys all sold. Watch for our offerings this fall. We can furnish you individuals for any show. With rich, copper bronze from head to tail. With enormous size and fine shape. Our "Hugo-King" strain has stamped quality in our flock of the very best. Our "Nugget" strain Buff Plymouth Rocks are large and fine in color, producers of the winners in almost every leading show in America. Eggs from our matings will place you in the leading winnings. Try us. Circular free.

J. C. CLIPP

Box 700

SALTILO, INDIANA

SINGLE COMB Buff ORPINGTONS

I specialize S. C. Buff Orpingtons. 1st and 5th cockerel, Augusta show. Will furnish limited number of eggs from my 1st pen at \$5.00 per 15. Other pens, \$3.00 per 15 and \$2.00 per 15. Stock, matter of correspondence. Also Homing Pigeons.

R. W. WHITAKER

Box 212

AUGUSTA, GA.



Mammoth
Bronze

Turkey Eggs for Sale

Do you want stock from the largest and finest in the South, from prize winners at Madison Square Garden, World's Fair, Nashville and many other great shows? Two flocks, unrelated, to select from. If so, write at once.

MRS. J. C. SHOFNER, Route 1, MULBERRY, TENNESSEE



INDIAN RUNNER DUCKS
The greatest layers on earth; 300 eggs per year. Send 10 cents for beautifully illustrated booklet No. 64 Tells how to raise ducks successfully. WOMAN'S COLLEGE, Meridian, Miss.

Water Fowls and Turkeys

By Our Special Correspondents

HOW TO MANAGE TURKEYS AND THEIR INCUBATION.

The time of year has now come when all turkey breeders should make the necessary arrangements for the next crop of turkeys, if we expect to be successful. I like the plan of penning turkeys, as it saves a great deal of time and labor in looking after them.

I will give my plans as so many have written me and asked "how do you manage to get the eggs?" I have two pens of from one to two acres each, the larger the better, with a

stream through it if possible; if not supply water; also want plenty of shade and grass. I select 8 or 10 standard marked hens or pullets to one large, healthy tom. Place them in pens early in the season that they may become acquainted to their range before laying season. Arrange some good strong roosting poles away from the fence that they will not fly upon poles and over fence. I do not like very high poles to roost on, as they may fly down and bruise their feet. I never house my breeding turkeys, for I notice 'tis their nature to go up higher in trees in a change of the weather and give a tighter tuck of the head under the wing. After we have watched to see that our turkeys have roosted in pens for several nights they will need no further watching. I now have some coops or old barrels placed in pen, coops about 2 1-2 by 2 1-2 feet and 2 1-2 feet high in front, sloping to about 18 or 20 inches to back, made of some kind of substantial boards, these should be placed around in different parts of the pen and brush of some kind thrown over; cedar brush is fine; but most anything to make it like woods effect and seclusion, for 'tis their nature to hide their nests; and have leaves or straw of some kind to hide eggs from crows and all intruders, consequently I furnish them their nest of this litter, and always scoop out a little basin for them, to prevent eggs from rolling out. When hen gets broody and stays on nest

about two or three nights, I remove her gently in the afternoon and clean out all old trash; see that nest is large enough for about 15 eggs, without rolling them; place new litter in basin and leave her alone to go on and arrange them to suit herself. I usually set about 3 or 4 turkey hens and several chicken hens at same time, so that my entire flock will come off at one time, if I can, or near the same time, giving all the poult to turkey mothers to care for them, as they always range further and give more bone and muscle to the young.

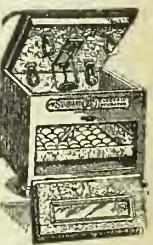
I do not like my turkey pens to be close together as the toms in confinement fight so much they do not give the attention to hens they should. I always take my basket and pencil in the afternoon and gather eggs and mark the pen number and date laid, on each egg; then I make no mistake in shipping out, if eggs are wanted from a certain pen. In this every day gathering, we avoid chilled eggs, or sun heated eggs. I also have a house in this pen to put my small turkeys and mothers in during storms or hard rains. This house is made about 12 x 14 feet and 6 or 8 feet high in front with a good slope back, with wire netting front toward the east, so that the sun will warm them up after a cold night. This open front gives plenty of fresh air, so necessary for young turkeys. I scatter lime over earth floor and a litter of straw or leaves over lime to prevent lime from burning feet while young and tender. Every 3 or 4 days I sweep out house and put fresh, dry litter over floor, especially if it is damp weather, and the house gets foul. I keep them in house with one turkey hen to every 20 or 25 poult. The several hens may fight some for a day or so, but will soon quit and run together all day and come home at night. Where we have several together, some will watch for hawks and give the signal to "hide out little ones" while others feed them. Will write again on "Care and Food for Young Poult" ere the feeding time comes.—Mrs. J. C. Shofner, Mulberry, Tenn.

LO-GLO INCUBATORS

Hatch By Electricity
No Smoke, Soot, Odors or Danger.
Built of Steel. Absolutely Automatic.

No more trouble than your electric light. Write for FREE BOOK
and see how easy it is to have big batches of vigorous chicks without worry or work, STAN-

ARD ELECTRIC INCUBATOR CO.,
83 Greenwich St., New York



35 VARIETIES Chickens, Ducks, Geese, Turkeys, O. I. C. Hogs, STOCK AND EGGS, REDUCED PRICES. Big new illustrated circular, better than ever. FREE. John E. Heatwole, Harrisonburg, Va.

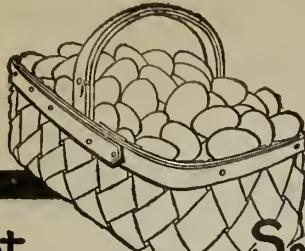
Snowflake White Indian Runner Ducks

MRS. E. E. ESHBACH

1402 Sturm Avenue

Winner of First Ribbons at Great 1912 Atlanta Show
Prize Winners Always. Are Heavy Layers of Pure
White Eggs. Breeding and Young Stock for Sale

INDIANAPOLIS, INDIANA



Get Eggs Now Save Fowls from Roup

You can make your hens lay and have eggs to sell now when eggs are high by using Conkey's Laying Tonic.

Conkey's Roup Remedy

A Preventive and Remedy. Fowls take their own medicine. Keep on hand and save your flock 25 cents, 50 cents and \$1.00.

The G. E. Conkey Co., Cleveland, O.

EGGS IN THE FOREIGN COMMERCE OF THE UNITED STATES

The growing dependence of the United States upon foreign countries for a part of its food supply lends interest to a special statement regarding imports and exports of eggs, prepared by the Bureau of Foreign and Domestic Commerce, Department of Commerce. Imports of eggs in the month of December last amounted to 1,514,296 dozens, or more than in the entire fiscal year which ended with June, 1913. In the fiscal year, 1903, the imports amounted to 368,000 dozens; in 1910, 818,000; in 1913, 1,367,000 dozen; and in the first three months under the new tariff law—October, November and December last—during which period eggs were admitted free of duty, the imports aggregated 1,701,153 dozens, most of them arriving in the month of December. Recent consular advices from China and European ports indicate continued large increases in the shipment of eggs to this country.

Eggs, other than those in the natural condition, are still subject to duty, though at reduced rates, and these show increasing imports in the brief period for which the monthly figures are at hand. Frozen or preserved eggs, the duty on which is now 2 cents per pound, compared with 5 cents a dozen under the former tariff, show for the last three months of 1913 a total importation of about 1 million pounds, valued at approximately \$115,000. Egg yolks, now dutiable at 10 per cent ad valorem instead of 25 per cent, as under the old law, aggregated about 200,000 pounds, and dried eggs, 8,534 pounds for the three months ended with December. In each case the imports were considerably larger than those for the corresponding period of 1912.

The countries contributing the eggs imported into the United States are few in number. Our imported eggs are chiefly the product of China, Siberia, Russia, and Southern Europe, those arriving from England and Germany having been for the most part shipped into those countries for resale to foreign markets. Of eggs imported

A HOME MACHINE FOR THE HOME FOLKS
MADE TO SUIT THE CONDITIONS IN THE SOUTH

Manufactured by

Southern States Incubator and Brooder Company

COLLEGE PARK, GEORGIA.

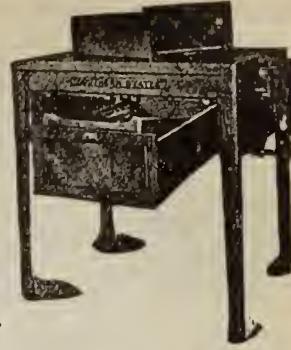
A Machine that is hatching big per cent of Ducks and Chickens. It is absolutely free from smoking or catching on fire.

TEMPERATURE
MOISTURE
VENTILATION } AUTOMATIC

There is no machine on the market today better in any way than this machine. Made from the best of natural oak grown in Georgia; highly polished, it is a substantial and beautiful piece of furniture. All inside heating equipment made from best grade of copper.

IT IS A MACHINE OF { LASTING QUALITIES
ORNAMENTAL QUALITIES
EFFICIENT QUALITIES

Write for our catalogue, describing fully each machine and brooder, with prices. Don't buy until you have investigated our machine.



WHITE WYANDOTTES

Have a number of exceptionally fine cocks, hens and pullets that I will sell at bargains for quick buyers. Will sell my New York, Atlanta, Savannah and Columbia winners. If you want some of the best blood in America write me at once stating what you want, and I will make you price to suit. Remember my birds have won from New York to Atlanta in awful strong competition. No cockerels left.

T. L. LITTLE :: Box No. 534 :: CAMDEN, S. C.

FLETCHER'S Buff ROCKS

ALWAYS WINNERS, won at Chattanooga show 1st cock; 1st cockerel; 1st, 2nd pullet; 2nd, 3rd hen; 1st pen. Stock and eggs for sale. Eggs, \$2.00, \$3.00, \$5.00 per setting, \$10.00 per hundred.

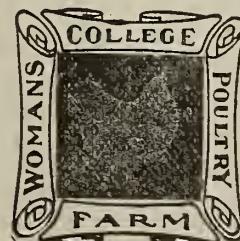
JNO. G. FLETCHER :: 404 Vance Avenue :: CHATTANOOGA, TENN.

CHAMPION BARRED ROCKS

I am now ready to furnish eggs that will produce the winners for 1914. At the Tennessee State Fair, September 29, to October 4, 1913, I won 1st and 2nd cock; 1st hen; 1st and 2nd cockerel; 1st pullet (6 entries); Kentucky State Fair, September, 1913—1st, 2nd, 3rd and 5th cockerel; 2nd and 5th cock; 5th hen; 2nd pen; and \$10.00 gold special for best display. This, with my win of silver cup at the International Egg Laying Contest, 1912, proves my Rocks win, lay and pay. Send for mating list of my champions. Incubator eggs a specialty \$5.00 per 100.

A. G. CALLAWAY :: R. F. D. 22 :: Box 55 :: LOUISVILLE, KENTUCKY

SPECIAL SALE!



ORPINGTONS White INDIAN Black Buff RUNNER DUCKS White Fawn and White Penciled

White WYANDOTTES—S. C. RHODE ISLAND REDS

In two recent shows we won thirty-six firsts and eleven specials, more than all competitors combined. Breeder, shipper and importer. Baby chicks and ducklings, 153 prizes in 4 shows. A. P. A. gold medal. Stock and eggs for sale. Fancy poultry for breeders a specialty. Write for price list No. 69.

Woman's College Poultry Farm :: Meridian, Mississippi

in the natural state, England is the chief nominal source, next in order being China (including Hongkong) and Canada. Frozen eggs are chiefly from England, with smaller quantities from Hongkong. Egg yolks come almost exclusively from Germany, which imports large quantities of eggs from the producing centers of Europe and Asia and re-exports them in this form

Don't Feed Green Food!

Do away with the bother by using
Succulenta Tablets

They are better and cheaper and more relished by all fowl. Simply dissolve one tablet in one quart drinking water for fowl. Sample can (100 large tablets) by mail.

.75. Can of 250 large tablets by mail \$1.50.
YOUR MONEY BACK IF NOT SATISFIED.
Drop postal for particulars to The Succulenta Co., P. O. Box 405-25, Newark, N. J.

CHICK-A-DEE FARM S. C. WHITE LEGHORNS



produces the high record laying pullets. can be bought at prices that any farmer or breeder can reach.

J. A. DINWIDDIE :: R. No. 3 :: NEW MARKET, EAST TENN.

COWAN'S WHITE LEGHORNS

Pens now mated and down to business like the Springtime. Book orders now for future delivery. Try my exhibition matings. Have also a fine utility flock; satisfaction guaranteed. Write for mating list.

THOMAS COWAN + DECHERD, TENNESSEE



For SALE Single Comb BROWN LEGHORNS

Some yearling stock yet for sale, cockerels and pullets which will make good breeders. Buy a good striped cockerel and tone up your flock. Eggs \$1.00, \$2.00, \$3.00 per setting of 15 eggs, \$6.00 per hundred. Circular free.

M. S. COPELAND + POWELL STATION, TENN.

to the United States and other parts of the world.

Most of the imported eggs enter through the ports of New York, Philadelphia, Boston, San Francisco, Baltimore, Milwaukee, Seattle, Takoma, and Portland, Ore. Hawaii also receives considerable quantities of frozen or preserved eggs from Hong-kong, an important distributing point for Chinese products.

Exports of eggs during the year ended with December, 1913, amounted to 17 2-3 million dozens, compared with practically 19 million in 1912, 5 2-3 million in 1910, and 1 1-2 million in 1903, a decade ago. While exports of eggs are still much greater than imports, the closing months of the year showed a distinctly downward tendency in exports and an upward trend in imports of that commodity.—U. S. Department of Commerce.

NO MOPING NOW.
"I'M LAYING"
Disease Paralyzes the crop (totally or partially). Why pour medicines into a "paralyzed crop," there to lie dormant, while disease destroys?
GET OCULUM AND INJECT
It, and Cholera, Roup, W. Diarrhea, Black-head and Leg Weakness will "get out and stay out."
"You have opened a gold mine for the chicken man." J. S. Hendry, Louisville, Ky.
Dealers, 50c. and \$1. If skeptical (doubtless you are), dime (postage), brings either size. Send bill. If O. K. Agents needed. Literature free. Your move next.
H. I. CO., Box M, Salem, Va.

For 16 years I have bred this breed for prolificness, trueness of type and vigor, and won my share of ribbons at best shows. I have 4 pens mated under the direction of C. A. Wilson, Professor of Animal Husbandry, Experiment Station of Tennessee, being especially bred to find the male bird that have other pens equally as good and eggs

BROWN LEGHORN EGGS

\$3.00 and \$5.00 per 15

Write for Free Circulars. 20 Fine Cockerels at a Bargain.

E. E. CARTER
Dept. IH Knoxville, Tenn.

hens. It is my belief that no greens are better for shut-in birds and if one must buy in a small way there are none so cheap to the city breeder. Spinach contains a larger percentage of the earth salts in its succulent juices than any of the other easily available greens. It has been termed the broom of the stomach. It is light and laxative and particularly rich in iron, making it a good tonic. It can generally be found the year around in city markets, and if a little shopworn or wilted can be bought for 1 lf price. A good washing will freshen it up all right for the hens.

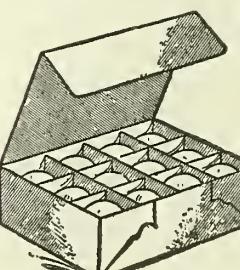
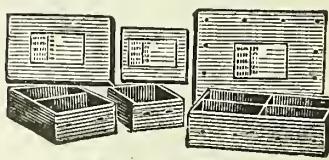
Don't buy much cracked corn at a time. It soon molds, and that's deadly. Grind your own and save money and mortality.

The fancy egg trade is greatly misunderstood. There is a way to handle fresh sterile eggs and convey them to the consumer in a practical, business-like way. We call them good fresh sterile eggs and we have not found it difficult to make a market for them.

NOTICE

As the season for the shipment of day old chicks and eggs for hatching is with us again, breeders will be looking for boxes that will deliver day old chicks by express, and hatching eggs by express or parcel post, and deliver them in a hatchable condition. After an investigation, we find leading breeders and chick hatcheries loud in their praise of the heavy made and strong corrugated card board boxes, not boxes made of light weight corrugated card board, many of which are being sold, and they are not made with enough

strength to stand rough handling, and as a result many eggs are broken or chilled, and chicks are killed. The Ripley Perfect Boxes which have been on the market for years, are made of heavy corrugated card, and from the many letters from leading breeders that the Ripley Mfg. Co., of Grafton, Ill., show their boxes are about 100 per cent perfect in construction and strength, we advise customers to write for their catalogue, or order direct from their adv., as they are a reliable firm.



And by the way, I have never seen in a poultry journal spinach recommended as a green food for the laying

EGG LORE.

Has it ever occurred to you, ye poultry lovers, that many of our very best books possess noted remarks about eggs? From the Bible we glean these: Luke XI:12: "If he ask an egg, will he offer him a scorpion?"

Job VI:6: "Can that which is unsavory be eaten without salt, or is there any taste in the white of an egg?"

Job XXXIX:13-14: "Gavest thou the goodly wings unto the peacock, or wings and feathers unto the ostrich which leaveth her eggs in the earth and warmeth them in the sand."

Deut. XXII:6: "If a bird's nest chance to be before thee in the way of any tree or on the ground, whether they be young ones or eggs and the dame sitting upon the young or upon the eggs, thou shalt not take the dame with the young."

Isaiah X:14: "And my hand hath found as a nest the riches of the people, and as one gathereth eggs that are left, have I gathered all the earth; and there was none that moved the wing or opened the mouth or peeped."

Isaiah LIX:5: "They hatch cockatrice eggs and weave the spider's web, he that eateth of their eggs dieth, and thou which are crushed breaketh out into a viper."

Jer. XVII:11: "As the partridge sitteth on eggs and hatcheth them not, so he that getteth riches and not by right, shall leave them in the midst of his days and at his end shall be a fool."

Shakespeare says: (Julius Caesar, 11:1): "Therefore think him as the serpent's egg which hatched would as its kind grow mischievous."

Columbus puzzled the wise men of his time as to how to sit an egg on the small end. W. J. Bryan in his world tour, said whether in China, South America, Europe or our own native land, the glad eye of a fresh fried egg, greets one always the same. The mundane egg—Phoenicians, Egyptians, Hindoos, Japanese and other ancient nations, believed the world was hatched from an egg made by the Creator.—Mrs. Oliver Payne, Crossville, Tennessee.

The busier the hens the better they will be.

New York, N. Y., Jan. 13, 1914.
The Hancock Inoculatum Co., Inc.,

Salem, Va.,

Dear Sir: It is more than likely that you will remember the correspondence I had with you the latter part of 1912. I think it but fair to tell you of my experience with "Oculum" since that time. I followed your instructions to the letter with reference to small chicks this last year and it is gratifying to report that I have not had a single case of roup, in fact no diagnosable disease, whatever, this year, although I was warned that the seemingly insuperable trouble of 1912 would surely make its appearance again in 1913. I have used no other remedy and am pretty sure that "Oculum" immunized my entire flock from the trouble I had a year ago, and I think I had, without doubt, the sickest looking lot of poultry that was ever well kept. I never have nor never will lose an opportunity to recommend "Oculum". The firm to which I referred more than a year ago is now recommending "Oculum" against all other remedies.

Very truly yours,
F. W. Ziegler.

THOROUGHBRED Buff ORPINGTONS and WHITE AFRICAN GUINEAS

The Buffs are from Wm. Cook & Sons direct; the best pen is headed by an imported cock, as fine as there is in the State of Tennessee. Eggs from this pen arranged by correspondence. Eggs from our regular pens, \$1.00 for 15. A few choice cockerels for sale.

FRANK W. BIDDLE & SON R. F. D. No. 4
New Phone 1299 KNOXVILLE, TENNESSEE

NICHOLSON'S ROYAL BLUE ORPINGTONS

At these three 1914 classic shows, Chicago, New York and Boston, my Blue Orpingtons have swept everything before them, and are unequalled by any other strain in England or America. Their color, quality and type have never been even dreamed of before. My winnings read more like a fairy story and the buyers of Blue Orpington stock or eggs should, for their own future, study my winnings, and then decide who has the Best Blue Orpingtons, not in America, but the world. I claim the above title because my birds have earned it in open competition and have defeated the world's best Blue Orpingtons.

MY Winnings on ROYAL BLUE ORPINGTONS—Chicago, 1913-14: 1st cock; 1st cockerel; 1st pullet; 1st hen; best display. Madison Square Garden, N. Y., 1913-14: 1st hen; 2nd and 5th cocks; 1st and 5th pullet; 2nd cockerel; 2nd and 3rd pens; best display, 109 in competition. Boston, 1914: 1st, 2nd, 3rd cock; 1st, 2nd cockerel; 1st, 5th pullet; 4th, 6th hen; best display, 52 in competition.

My record of 1st pullet at Chicago, New York and Boston with three sister pullets stands alone and perhaps will never again be equaled. Above records have been made at three great classic shows of America, not second-rate cattle shows. I have won under three different judges, Delano, Myers and Greenwood. My pens will be headed by the most exhibiting lot of winning males the Blue Orpington world has ever seen.

BARRED ROCKS: My Barred Rocks again win at Boston, 1914. In the hottest class ever seen I won 1st, 2nd and 6th cock. At the Crystal Palace Show, England, American class, Nov. 18, 1913, I won 1st and 2nd cocks; 1st and 2nd cockerel; 1st, 2nd and 3rd hen; 2nd pullet and international medal.

BARRED ORPINGTONS, originated by me. At Boston, 1914, I won 1st Barred Orpington cockerel, also 1st pullet. Send for circulars to the breeder who is exhibiting and winning and proving he is breeding the Best Blues in the World.

HALDIE NICHOLSON :: Box 6 :: LEOMINSTER, MASS.

FRAIN'S BLACK and WHITE ORPINGTONS

Our winnings at Augusta Show on Blacks: 1st hen; 3rd pullet; 3rd cock; 3rd, 4th, 5th cockerel. A lot of Black cockerels for sale. Whites: 4th and 5th hen at Columbus, Ga. Blacks: 1st hen; 1st and 5th cockerel; also the best bird in the show; 2 special \$10.00 in gold and 2 silver cups. Whites: 4th cockerel. Eggs, \$3.00, \$5.00 and \$10.00 per setting; utility stock eggs, \$10.00 per 100. Agents for Cyphers Incubators and Supplies.

R. A. FRAIN & SON :: 1370 Broad Street
2316 Wrightboro Road :: AUGUSTA, GEORGIA

BLUE AND WHITE POULTRY YARDS

Blue Wyandottes, Blue Leghorns—EGGS—White Wyandottes, White Leghorns. from all Blue Ribbon White Wyandottes \$5.00 per 15. Other pens \$3.00 per 15. Blue Wyandottes, \$5.00 per 15. Blue Leghorns, \$3.00 and \$5.00 per 15. I won at Columbus, Ga., Nov. 1913, on Blue Wyandottes, 1st pen. Blue Leghorns, 1, 2, 3, pen; 1, 2, hen; 1, 2 cock; 1st cockerel; \$5.00 special for best display. White Wyandottes, 3, 4, 5 pen; 4 hen; 5 cock. The Geo. Hamburger gold and silver cup for best pen by lady exhibitor. My White Wyandottes won 1st pen at Atlanta, S. I. P. A. show 1911, also 1st pen 1912, different birds. Single entry, 3rd hen; 5th cock. Every bird in my pens prize winners. A few trios Blue Leghorns, \$15.00 trio; yearling stock. Satisfaction guaranteed. Life Member A. P. A. I won at Florida Fanciers' Association Show this winter, White Wyandottes 1st pen; Blue Wyandottes, 1st pen; Blue Leghorns, 1st pen. Address MRS. C. A. BULLOCH, Bullochville, Georgia.

Where The Money Comes From.

Important egg-laying contests, under strict federal supervision have done much toward stimulating popular interest in heavy layers—it remains for the small fanciers to realize what a big increase in earning capacity their flocks will enjoy after heavy egg-laying stock is introduced.]

It is only comparatively recently that any attention has been paid to purely utility strains on this side of the water, although English breeders have been engaged in the attempt to produce heavy-laying proclivities by selective breeding some 20 years past.

It is for this reason that the most remarkable records yet achieved in this country have been from English strains. Selective breeding for egg-laying proclivities must be pursued throughout many generations to obtain noteworthy results, and only in England has this been done.

Foremost among English utility breeders is Tom Barron of Catforth, near Preston, who has achieved an in-

We want the name of every young man who is ambitious to



BE A LAWYER

and we want to hear from every business man who wishes that he knew BUSINESS LAW.

Write today and let us tell you how we have made lawyers out of hundreds of young men just like you, and equipped business men with a legal training that has been of immense benefit to them. This School, founded 23 years ago, has graduates who have passed bar examinations in every state in the U. S. Courses endorsed by Bench, Bar, and Business men.

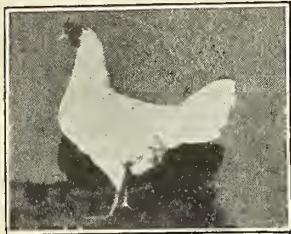
Learn about (1) our Complete College Law Course which fits for practice, and (2) our Complete, Practical, Business Law Course for Business Men. Find out about the low cost, and see how easily you can obtain a thorough knowledge of the Law while continuing your present work. Easy Terms!

Send today for handsome catalog and list of successful graduates all over the U. S. who grasped their opportunity by once answering an ad. like this!

THE SPRAGUE CORRESPONDENCE SCHOOL OF LAW
401 American Building, Detroit, Mich.

STUDY
LAW
AT
HOME

I SHIP 25 EGGS TO EACH SITTING



and have 57 magnificent matings from which to fill your order. For years and years Peerless strain White Leghorns have stood foremost as layers of large, uniform, white shelled eggs. They are known universally for their large size, and they have been carefully crossed with America's finest exhibition strains to perfect standard points. In-breeding is unknown on this plant. We have big, strong birds that both lay and win. Send for big free mating list which shows many winners at Chicago, Kansas City, Denver, Detroit and Omaha, just as the birds really are. This booklet also contains much valuable information on feeding, housing, etc. The quality I am furnishing in eggs this season should interest every breeder, large or small, and my prices are 25 to 200 per cent lower than any others—made possible by minimum operating and selling expense, coupled with large production. **SPECIAL:** I have twelve pens headed by males imported from Tom Barron, whose Leghorns are the English champion layers.

LEON C. HUNTINGTON, Box 125, Omaha, Nebr.

Partridge ROCKS

Direct from the originator of this variety. Fowls, either cocks, hens, cockerels or pullets of grand breeding or show quality, from the greatest blood lines of the breed ever known at reasonable prices considering quality. Satisfaction guaranteed.

Eggs, from forty of the grandest matings ever made of this variety, strictly fresh and tested for fertility. Send for mating list describing these pens and explaining my great offer of Gold Medal to purchasers of eggs from me this season. Every infertile egg can be returned and will be replaced. Remember fowls in these pens have been winners at Chicago, New York, Cincinnati, Kansas City, Indianapolis, Topeka, and other leading shows and that catalogue is free for the asking. Come to the fountain head.

S. A. NOFTZGER, N. Manchester, Indiana
Originator of the Partridge Rock Fowl.

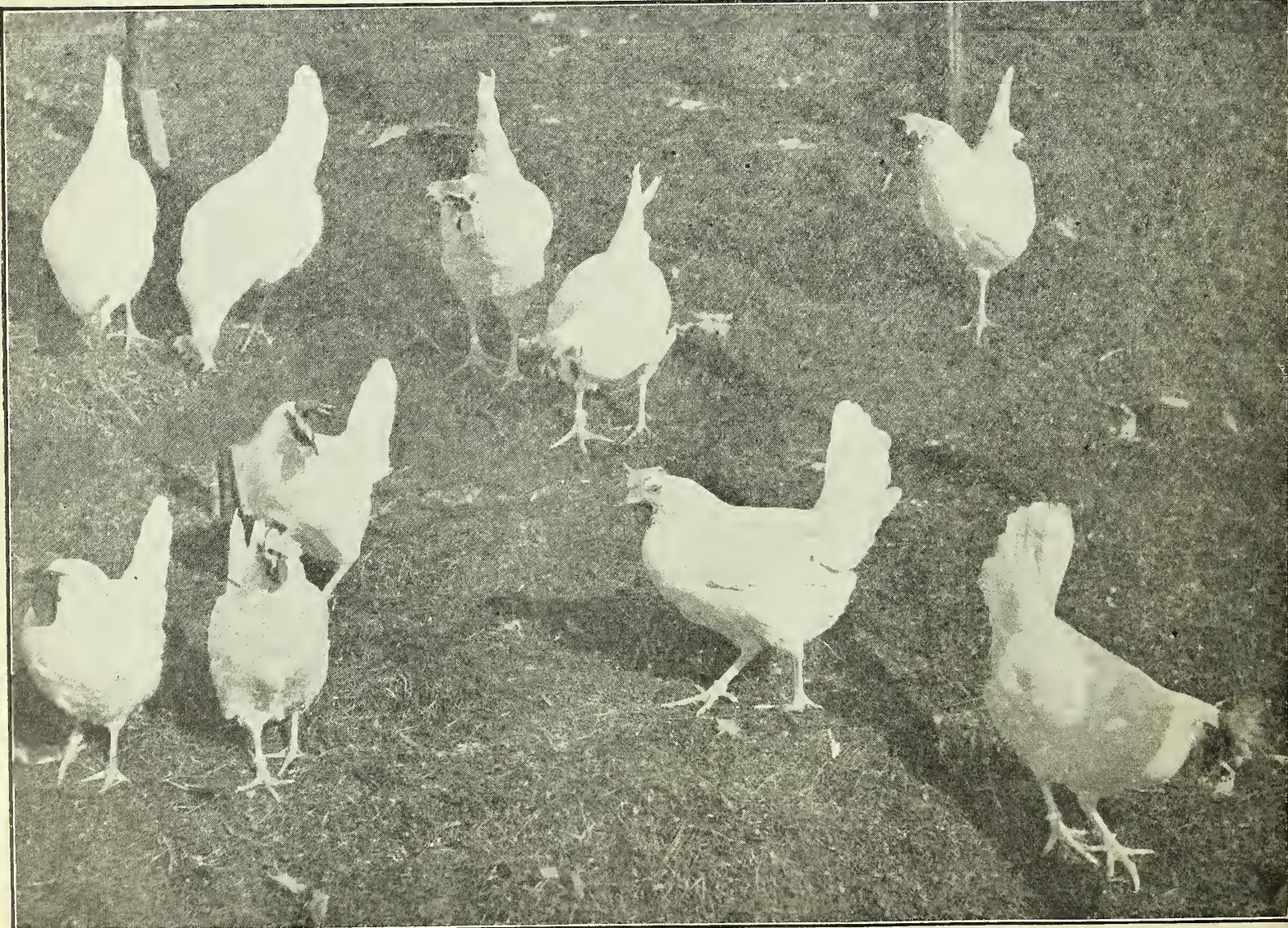
International reputation by producing the 200 egg hen, not as an occasional freak, but as a dependable strain that can be relied upon to back up the 200 egg claim.

Perhaps the most notable pen that ever went out from the Tom Barron farm was the entry in the 1913 International Egg-Laying Contest, illustrated above. This remarkable group of birds, ten in all, made the wonderful total of 2073 eggs, seven hens laying over 200 eggs—258, 246, 243, 226, 219, 219 and 208 eggs respectively. These totals do not include at least 150 soft shelled eggs, which would make the average considerably higher.

This pen is composed of the birds that are full sisters to the winners of the Philadelphia North American contest, 1913, held at Storrs, Conn.; this latter pen also took the cup and the record of 1190 eggs (five hens) with an average of 238 eggs per hen.

The illustration shows but one of the several prize-winning pens now in the possession of the Penna. Poultry Farm at Lancaster, Pa., an establishment now considered to rank among the foremost breeders of utility fowls in America. Although specializing in White Leghorns, of which breed the birds referred to above are splendid specimens, Messrs. Scheid & Ream, the proprietors, have also developed remarkable heavy-laying strains in White Wyandottes, Buff Orpingtons and S. C. R. I. Reds, having imported many pedigreed fowls from England with a view to offering the very best obtainable to American breeders.

Important egg-laying contests, under strict federal supervision, have done much toward stimulating popular interest in heavy layers—it remains for the small fanciers to realize what a big increase in earning capacity their flocks will enjoy after heavy egg-laying stock is introduced.



Most valuable pen of utility fowls in America. Winners of first prize and cup in the 1913 Missouri Egg-Laying Contest. This pen is valued by the owners, The Pennsylvania Poultry Farm, at \$1,000. The ten birds made the marvelous official contest record of 2073 eggs.

Single Comb
Black

MINORCAS

Single Comb
White

LEGHORNS

BLUE RIBBON WINNERS at MEMPHIS, NASHVILLE and CHATTANOOGA

Eggs and Baby Chicks of Quality at the Right Price. -:- Send for MATING LIST

PARK VIEW POULTRY YARDS

H. A. WARING
R. F. D. No. 3

MEMPHIS, TENNESSEE

IMPORTANCE OF PROPERLY RAISED
BABY CHICKS

It is sometimes said that any kind of incubator will hatch out a baby chick, but it requires the most careful attention as well as the best appliances to brood a baby chick after it is hatched. While incubation is important, and a well hatched chick is easier to raise than a poor one, yet the best hatched chick cannot be grown to the best advantage with poor brooding equipment. First, the hover must be as nearly like nature as possible. This means that there must be no corners, the hover must always be warm, it must be easily gotten into and easily gotten out of, and the air must be pure and fresh. When the chick wants fresh air, it can go out; when it wants warmth, it can go into the hover.

Another important factor of a successful brooder or hover is that it must be readily accessible to attend to it. If it is necessary to get down on the floor to attend to the lamp, or if nails must be driven or torn up to move the hover, the attention will be slight and the chicks will be left in a wet and dirty hover. The little details are what count in the raising of baby chicks. This means that they must be given attention every day. Cumbersome, complicated brooders are a nuisance and the attention given them is little and not sufficient. Experience has proven that a round hover with central heat can be more easily attended to than any other, as the circular hovering capacity prevents crowding and the hover can be easily moved. The International Sanitary Hover, manufactured by the Hover-Incubator Mfg. Co., Box 187, Browns Mills, N. J., has proven, on many of the largest poultry farms, to be the most successful of all the hovering devices. It only weighs 30 pounds, and to set it up you have only to set it down; easily moved; no nails to drive or platforms to build; made of galvanized iron; fireproof. It will mother 100 chicks easily. Lowers death rate of chicks by great numbers. For sale at all dealers.

Use clean nest boxes and clean, dry nesting, also clean grit, charcoal, feed and water vessels. If this work has been well done, the house should look and smell clean even if it is a somewhat drug store smell.



Jewel, first pullet Knoxville, Birmingham and Augusta. Winner of champion special and \$25.00 silver cup. Bred and owned by Mrs. Donald Donaldson, Decatur, Georgia.

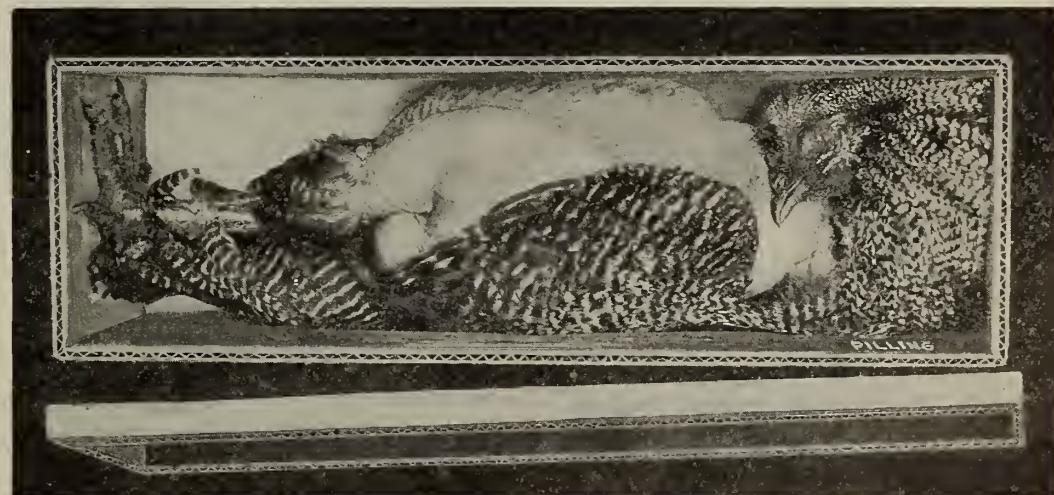
SINGLE COMB WHITE LEGHORNS

No better strain of layers in United States. Have been 14 years building it. Each pen headed by a cock of Young's famous strain. Every bird pure white, good points throughout. Eggs for setting, incubation and day old chicks. For prices write

W. R. SKINNER -:- 608 W. Ocmulgee Ave. -:- FITZGERALD, GEORGIA

SINGLE COMB BUFF LEGHORNS

If interested in Buff Leghorns, write for my 1914 catalogue, containing matings, prices and list of winnings at such shows as Chicago, Nashville, Augusta, Atlanta and Knoxville and compare with any breeder in the South. Excellent breeding females, \$1.50 each; males \$2.00 and \$3.00. Better prices on 10 or more. Eggs from two all prize matings headed by Chicago winners, \$3.00 per 15. Pens headed by Nashville and Augusta winners, \$2.00 and \$1.00 per 15; \$5.00 per 100. If eggs are to be sent by parcel post, postage will be paid on pens 1, 2, 3 and 4. DR. E. S. LANDESS, Fayetteville, Tennessee.



PRODUCING "SOFT ROASTERS" WITH CAPONS.

Plain poultry keeping affords one a living but the big profits are secured by special work—the production of "by-products" we might call it. On the average poultry farm each year's output of cockerels is usually sold at a loss. This can be avoided if you will prepare your males to meet special market requirements.

Producing Soft Roasters will make your cull cockerels more profitable than the females. Such roasters bring the highest prices when produced through caponizing. This operation yields the largest possible bird. The larger the bird the higher price paid per pound. The South Shore section of Massachusetts is noted for its large numbers of tender, juicy Soft Roasters and the high market prices received for them.

Having decided to raise Soft Roasters, select the best cockerels for the breeding pens. This can be done when they are three or four months old. Caponize all other cockerels and feed them two or three months longer. By this time they will weigh 8 pounds and be in prime market condition. Cracked corn, beef scraps, and water should be kept constantly before them. Feed them some green food in the shape of cabbage, sprouted oats, or green rye. Capons will reach the desired weight in a few weeks without other forcing than the above simple diet.

Soft Roasters are in demand all the year

round but bring the best prices in the early summer. We advise those of our readers who have been selling their cull males for low market prices to caponize and fatten them hereafter. It will mean greater profits to you from marketing them as Soft Roasters.

The new 20-pound limit for parcels lately put in operation by the post office department has greatly increased the opportunities for shipping capons and dressed poultry, direct to the consumer at a small cost for transportation. You can work up a private high-class family trade and ship one or more capons direct to each customer once a week, or as often as wished—and feel assured of prompt and safe delivery.

Caponizing not only increases the size and weight of the male at killing time, but the capon's flesh is more tender, juicy and finer flavored than the ordinary fowl. This is the reason caponized Soft Roasters bring more per pound.

The operation of caponizing is quite simple when you have a good set of modern instruments such as G. P. Pilling & Son Co., of Philadelphia manufacture. This concern has a little booklet which describes the operation thoroughly. It also gives a lot of valuable information on the care and feeding of capons. They will be glad to send it free to any poultry raiser.

COVERT'S QUALITY BUFF ORPINGTONS

Winners at Knoxville, Terre Haute and Indianapolis 1913-14. Grand yards mated for eggs and baby chicks. No matings held in reserve. Large, massive Buffs that are bred to lay and win. The productive qualities of my birds make them worth owning. My catalogue is free if you mention this paper. Book your orders early. Satisfaction guaranteed.

H. M. COVERT

BOX X,

2500 NORTH 13½ STREET

TERRE HAUTE, INDIANA

DISEASE PROOF

SUCCESS SURE

CHAMPION Black ORPINGTONS

On and after March 1st we will offer all birds of \$5.00 and up valuation to have been treated with that wonder of the age, Roup Vaccine. Such inoculation absolutely prevents or cures that bane of the poultryman, roup and all its kindred ailments, to which all fowls are subjected. Hurry, as our stock is going fast.

J. T. ADAIR :: Bourbon County, MILLERSBURG, KY.

Brook Lawn Beauties

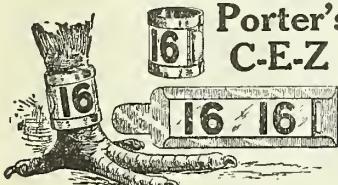
Prize winners and unexcelled layers. Great value, low prices. Eggs, \$1.00, \$2.00 and \$3.00 per fifteen. Write for show record and mating list.

HOYAL JOHNSON, Box I. H., Route 2, BRUSH CREEK, TENN.

EMBOSSED PRINTING

WRITE FOR PRICES AND SAMPLES

S. B. NEWMAN & CO., KNOXVILLE, TENNESSEE



is the culmination of the band maker's art. It is the "last word" in big number color bands. The aluminum is of exactly the right weight and when rolled makes a stiff, strong band that will not come off, yet is not too heavy. The workmanship is perfect. The numbers are lithographed on colored Xylonite and heavily coated with liquid celluloid, thus making them absolutely waterproof, hermetically sealing the numbers and protecting them from being scratched or worn off. Try one with your knife. They come numbered from 1 to 60 in 12 colors—blue, light blue, red, pink, green, light green, cherry, brick, yellow, light yellow, white and grey. Heavy black figures. Send ten cents for 2 pairs and be convinced. Sample for stamp. Prices, any combination of colors and numbers; 6 pair, 25c; 12 pair, 50c; 25 pair, \$1; 50 pair, \$1.50; 100 pair, \$8.00; 500 pair, \$13.00. Prices on poultry bands on request. PORTER BAND COMPANY, Porterdale, Ga.

Utility and Fancy Pigeons

By JOHN A. PORTER, Porterdale, Ga.

THE SQUAB MARKET GETTING BETTER.

AVING been in the squab business for some years, I presume that my experience with pigeons will be of interest to others. I have at present 130 mated and working pairs consisting of Homers, Carneaux, Swiss Mondaines and a few Maltese. Up to now the business has been a side issue. I started nine years ago with Homers, and have culled heavily.

I think that all of the varieties are good utility squab breeders. One

can work up a fine squabbing strain with any breed if he keeps culling out the poorest workers. The Swiss Mondaines are exceptionally good squabbers, the only fault I find with them being that the youngsters are more difficult to raise than other breeds; but once they reach mating age, they are very hardy.

I built a thirty foot addition to my squab house last summer and it is already almost filled with young mated birds. I have now six units holding twenty-five pairs each. I also have a loft in the top part of a poultry house. These birds are allowed to fly at large on the farm, but are fed the same as others and do equally as well. I have a special place for my youngsters, and these too, are allowed their liberty until they begin to mate. I think they are healthier and develop into better breeders when allowed their liberty when young. Of course, unless one lives on a farm this would not be practicable. Feeding is done in open troughs twice each day, and when there are many squabs in the nest I give whole corn before sunset;

otherwise I do not feed whole corn before sunset, else the old birds would become too fat and would not lay. I mix my own feed, which consists of cracked and whole corn, wheat, ground oats, with hulls blown out, milo maize, millet and peas. If you live in the oats region, grind your pigeon's oats and blow out the hulls with a fanning mill. This is an inexpensive feed and is good. The squab market is getting better every year. I live twenty miles from Peoria, and I am working up a private trade there, delivering the product by parcel post. I sold my entire output last summer here in our town to a poultry dealer for \$3 for Homers and \$4 for larger ones, alive. This man has a cold storage plant in Peoria, and he will take all I bring. During the winter I dress and ship to New York, where I get the best prices.

We had the county farmers' institute here in Tremont some time ago. I took a pair of each of the different breeds of pigeons and exhibited them in the poultry department and did a little advertising by placing cards on the cages, also stating on the cards that squabs were fine eating and that I had them for sale at all times. The pigeons attracted much attention, and I already have had calls for squabs.

When dressing squabs I find it convenient to clean the crops with a pint size glass funnel. Place the funnel in the squab's mouth and fill with water, which fills the squab's crop, then remove the funnel and shake squab up and down, which loosens the contents, then invert with a quick motion, and contents will all be washed out.

RULES FOR CORRESPONDENCE.

Correspondence, the route over which practically all poultry business is done, is in itself important. Carelessness regarding it as to business custom is oftentimes the cause of much delay. Courtesy, promptness, distinct writing, correct and plain address of writer, and brevity are some of the main factors in business correspondence to be remembered. In too many cases one or more of these rules are abused, often through thoughtlessness or hurry and not infrequently through ignorance of their importance. A good writer is not always a good correspondent; nor is a good correspondent always a good writer. Let us study for a moment the effects of courtesy or discourtesy. If a writer has a sour, grouchy disposition and works any of this disposition into his correspondence, business or social, he cannot expect good results therefrom. If he is a natural grouch he had better not write, but far better go by himself somewhere, where he alone can catch the echo of his words, and

Germifugue

(Non-Poisonous)

KILLS Poultry ILLS. A MANY IN ONE Remedy.

A Scaly-Leg Ointment. A Lice Ointment. A Healing Ointment.

Applied warm to the head and throat passages, it will heal the diseased mucous membrane incident to Roup, Colds, Catarrh, and Bronchitis.

2 Ounces, 25 Cents
1 Pound, \$1.00

No free samples, but a 25-cent tin will be sent on approval.

Guaranteed by

J. H. PETHERBRIDGE
Manufacturer

MT. AIRY, PHILADELPHIA, PA.

Under the Food and Drugs Act, June 30, 1906, Serial No. 41869.

there and then spill as many words, slang, sarcasm and mean insinuations as he pleases; but the careless, with none other than good intentions, often get a little sentiment mixed into his correspondence that does not smack of courtesy when read at the other end of the route. This, however, does not, as a rule, hinder business transactions as does incorrect composition and indistinct writing and spelling of name and address. The trouble is not always poor writing, but the use of too many flourishes, dashes and shading of letters, which makes it next to impossible for a stranger to pick it out and make a sensible sounding name and address of it.

The first thing a person should think of when signing his name and address to a letter written to a stranger or a strange firm is, the fact that the stranger or firm knows positively nothing of his name or how it should be spelled; hence he should leave off all unnecessary marks, kite tails, dashes, etc., and make his letters plain (if he can.) Then continue his plain writing through the letter, so the party may read it quickly, and act as quickly on the subject contained therein. Often, letters hard to make out are hastily thrown in the waste basket to save valuable time necessitated in picking out their contents, when they may or may not be of importance. The importance of plain signature and address, is perhaps above all else, for if they are all plain, the letter can be answered quickly. Very many letters has the writer received during the past that could not be answered for the reason that neither name or address could possibly be made out, and also the postmark was not distinct and we could not get help from that source.

Information: The failure to en-

SPAIN'S Barred ROCKS Mammoth BRONZE TURKEYS

I have nine pens of birds mated up that are headed by the champion cockerel of Virginia and 1st and 2nd pullet bred males of the state, and 1st pullet bred cock at Baltimore show with several sons of that wonderful pullet bred cockerel last year, "Sensation." They are mated to nothing but the very best of my prize winner females. If you want something to produce winners for next fall fairs and shows, get some eggs from these matings. They are very reasonable, for I want them in reach of all people interested in thoroughbred poultry. Eggs, \$2 to \$5 per 15. I have a limited number of M. B. Turkey eggs from flocks headed by 3rd prize tom, Baltimore show, weighing 40 lbs, and 1st prize young tom at Baltimore and which was so much admired for his grand markings. Eggs 50c and 75c apiece. Stock always for sale. Write for mating list and winning sheet.

E. C. SPAIN, R. F. D. No. 2, CHURCH ROAD, VIRGINIA

DILLARD'S ROCKS

BUFF PLYMOUTH

Win in strong competition. At Spartanburg, 2nd cock; 2nd cockerel; 1st, 2nd, 3rd, 5th hen; 1st, 3rd, 4th pullets; 1st, 3rd pens; 1st display. Special Loving Cup for best display, all varieties competing. Eggs after Jan. 1st. Booking orders now. 1st pen \$5.00, 2nd pen \$3.00, 3rd and 4th pens \$1.50 per 15. Stock a matter of correspondence.

S. B. DILLARD :: SPARTANBURG, SOUTH CAROLINA

Barrett's Blue Ribbon Strain and Imported Single Comb MOTTLED ANCONAS

the world's greatest layers. Stock and eggs. Write for mating list.

BARRETT'S ANCONA FARM :: Morristown, Tennessee
State Vice-President Ancona Club. Member Ancona Club of America.

ANDERSON'S BUFF ORPINGTON DUCKS

Win on 2 entries S. I. P. A. 1st cockerel; 1st hen. 2 entries, Tampa, Fla., 3rd cockerel; 1st hen. Eggs \$2.00 per 12. White Leghorn eggs from prize winners, \$3.00 and \$2.00 per 15. White Wyandotte eggs, \$5.00 per 15.

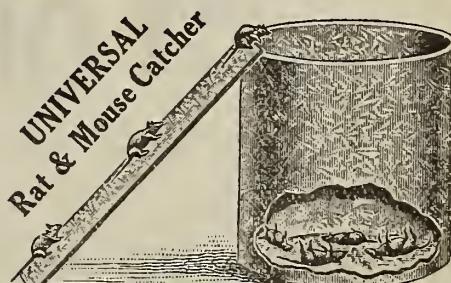
C. W. ANDERSON :: SPARTANBURG, SOUTH CAROLINA

LONG'S Silver WYANDOTTES

If you want the best in stock and eggs, send for mating list. POPE M. LONG, Cordova, Ala.

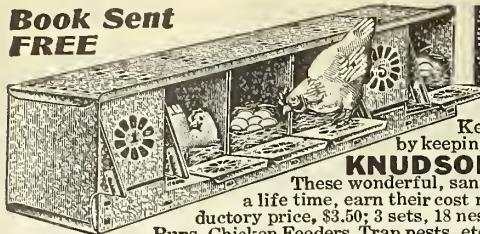
close a stamp where information is sought only of interest to the writer, is next to an insult, and at least shows a lack of courtesy. While a two cent stamp is insignificant in itself, a hundred of them is worth two dollars, and if the information sought is not worth two cents to the writer, with the informant's time, paper and ink thrown in, it is not of much consequence.

A Prompt Reply: When a poultry breeder receives a call for a certain kind of a bird with price, and not until after a week or two does he answer and then write: "Sorry to inform you we are entirely sold out of the class of birds you seek." Now such a breeder lacks courtesy—business courtesy—toward a would-be customer. The information he gave when he did write, was just as important to the inquirer as though the breeder had what he sought, and the delay caused by the slowness of the breeder in answering the inquiry might cause much inconvenience to the party seeking the



Cleans a building of Rats and Mice in short time, keeps it cleaned, for it is always ready for use. Made of galvanized iron, can't get out of order, lasts for years. Large number can be caught daily. Go to Catcher mornings, remove device inside, which only takes few seconds, take out dead rats and mice, replace device, it is ready for another catch. Small piece cheese is used, doing away with poisons. Catcher is 18 inches high, 10 inches diameter. When rats pass device they die, no marks left on them. Catcher is always clean. One of these Catchers set in a livery stable in Scranton, Pa., caught over 100 rats in a month. One sent prepaid to any place in United States upon receipt of \$3. Catcher, 8 in. high, for mice only, prepaid \$1. On account of shipping charges being prepaid, remittance is requested with order. H. D. SWARTS, Inventor and Manufacturer, Scranton, Pa.

**Book Sent
FREE**



Lice-Proof Nests

HAPPY HENS EARN BIG PROFITS

Keep your hens happy, get more eggs, make them pay you better by keeping them free from lice and mites, by equipping laying houses with

KNUDSON Galvanized Steel LICE PROOF NESTS

These wonderful, sanitary, patented nests (not a trap nest) can't get out of order, last a life time, earn their cost many times over. Regular price, \$3.90, set 6 nests—special introductory price, \$3.50; 3 sets, 18 nests, \$10. Write for free catalog. Gal. Steel Brood Coops With Runs, Chicken Feeders, Trap nests, etc. Knudson Manufacturing Co., Box 587 St. Joseph, Mo.

SOUTHLAND'S CHAMPION WHITE ROCKS

Have for years won more first, second, regular and special breed prizes than 53 competitors combined. We have also won a decisive majority of the sweepstakes prizes open to all breeds and varieties. These winnings were not at county fairs or minor shows, but at the South's largest shows, from 142 to 181 White Rocks in competition. We have met and defeated every Southern breeder of prominence and some of the most prominent 3 and 4 times. These are FACTS and we have the records to prove them. WHY EXPERIMENT with other strains when fifteen expert poultry judges who are authorities have testified to the superior excellence of our flock? We have supplied show birds all over the country and they won their ribbons, too. Raising better White Rocks is our sole business and we have 44 acres devoted exclusively to them. They are range raised, line bred, trap-nested and full of vim and vigor. We please our customers or refund the money. Stock for sale at all times. Eggs at \$25.00, \$15.00, \$10.00, \$2.00 per 15. THE BEST IS NONE TOO GOOD.

MARTIN F. SCHULTES, Box 143 Albashire, BARTLETT, TENNESSEE

SINGLE COMB

WHITE LEGHORNS

Are the Greatest
Money Makers

Our strain has been bred for 12 years for heavy laying, quick maturity and exhibition purposes. Blue ribbon winners wherever shown. 2,000 breeders. Eggs for hatching, baby chicks or breeding stock in any quantity. Satisfaction guaranteed. Start early. Get our prices. Now filling orders.

DENSMORE POULTRY FARM, Inc., ROANOKE, VIRGINIA

White PLYMOUTH ROCKS

My White Rocks have just won at the great International, Atlanta, first and fourth pullet; 2nd cock; 2nd cockerel. I have in my yards the birds that won at Augusta, 2nd cock; 2nd cockerel; 2nd hen; 2nd pullet; a few good cockerels and pullets for sale. Eggs from properly mated winners balance of season \$3.00 per setting. Satisfaction guaranteed.

HENRY W. LESTER :-:- THOMASVILLE, GEORGIA

EGGS AND BABY CHICKS FROM FOGG'S SINGLE COMB WHITE LEGHORNS

All our breeders this season are old birds, they produce the strongest chicks—THE KIND THAT LIVE. If you want the most for your money, send for mating list now. Safe arrival of chicks and eggs guaranteed.

N. V. FOGG, :-:- Box A, :-:- MT. STERLING, KENTUCKY

SINGLE COMB BUFF ORPINGTONS

Eggs \$1 to \$5 per 15. Fertility guaranteed. Our yards are mated for exhibition only and contain nothing but prize winners. Write for catalogue.

CLAUDE F. DEAL, :-:- Lock Box B, :-:- LANDIS, N. C.

EGGS WHITE WYANDOTTES EGGS

I breed no other variety. Prize winners everywhere shown. Last winning, 1st pen, National Conservation Exposition, Knoxville, Tenn., 1913. No better nor healthier birds produced. Great layers. Raised on high and dry cedar range; never a mite, louse nor disease. Eggs, 1st pen, \$2.00 for 15. No stock to sell this season. Order ahead of needs.

W. D. WILLIAMS, Jr., Westview, GREENEVILLE, TENN

DONALDSON'S REDS S. C. RHODE ISLAND

Win the blue year after year, proving their matchless quality. Red breeders and judges say they never saw such color and type. Write for mating list and start with the very best in eggs for hatching or baby chicks. Eggs, \$5.00, \$3.00 and \$1.50 per 15.

MRS. DONALD DONALDSON :-:- DECATUR, GEORGIA

CAPON TOOLS



CAPON bring the largest profits
—100 per cent more than other poultry.

Caponizing is easy and soon learned. Progressive poultrymen use

PILLING CAPONIZING SETS

Postpaid \$2.50 per set with free instructions. The convenient, durable, ready-for-use kind. Best material. We also make

Poultry Marker 25c, Gape Worm Extractor 25c

French Killing Knife 50c, Capon Book Free.

G. P. Pilling & Son Co., Philadelphia, Pa.

bird in question, especially if it should be a class of birds much called for and hard to find. The breeder who is slow to answer an inquiry, though he does not get anything from that particular case, does not encourage future business from the same source.

Here are a few things that will hurt none of us if pasted in our hats: I must be courteous; I must be prompt; I must learn to write my name and address in a manner that it can be easily read by a stranger and must remember that extra marks of any kind aside from those necessary to form plain and distinct letters to make the words in the message readable, is a menace to correspondence and should be cut out entirely. I must remember also that the price of gratuitous information is one red stamp, and that there is no fluctuation in the price.—S. P. Porter, Mallet Creek, Ohio.

THE CARE OF LITTLE CHICKS.

During the next few months thousands of little chicks will be hatched, and a large percentage of these can easily be raised if they are started right and properly cared for. One of the heaviest losses come to the poultry industry by not carefully starting and taking care of little chicks during the first four weeks of their life. It is strange but nevertheless true that many people think an old hen will take care of her own chickens or they can be missed by allowing them to do just any old way. This is a big mistake. The only proper way to raise nearly every chick that you hatch is to confine the hen and chicks in a suitable building to keep them dry and comfortable. One hen can easily take care of twenty to forty chicks if they are given to hens after they are hatched. They should have sufficient exercise and be kept off of the ground until they are at least feathered. If this is done you will have no trouble in raising them.

When little chickens are allowed to run out in the open air or on the damp ground at any season of the year, especially before they are four weeks old you can expect in 9 cases out of 10 more or less loss among them. Invariably where the hens and chickens have been kept confined and looked after properly they have grown off splendidly with practically no loss at all. It has proven to me conclu-

N. A. Contest
282 Eggs

TOM BARRON'S - ENGLISH 200-EGG STRAIN -

Mo. Contest
258 Eggs

S. C. WHITE LEGHORNS
BUFF ORPINGTONS

WORLD'S CHAMPION LAYERS

WHITE WYANDOTTES
S. C. RHODE ISLAND REDS

1st prize and loving cup in the Missouri Egg-Laying Contest 1912-13; 1st prize and cup at Storr's, Conn., 1912-13. Now in the lead in the present Missouri Egg-Laying; also leading Storr's Egg-Laying Contest, and the North American Egg-Laying Contest. This proves they are the world's greatest layers. We can furnish a limited number of eggs for hatching from the winners of the Missouri Egg-Laying Contest, 1912-13, which made the marvelous record of 2073 eggs, 7 hens laying over 200 eggs, 258-246-243-226-219-219-208. eggs respectively. We trap-nest every layer every day in the year. Poultry experts state this strain to be the most profitable in America today. Eggs for hatching. Baby chicks. Free catalog, contains valuable information that will increase your egg yield.

THE PENNSYLVANIA POULTRY FARM, Address Office, 308 Pearl Street,

LANCASTER, PENNSYLVANIA

sively that if you wish to raise the chickens hatched the surest and safest way to do so is to keep them confined to limited quarters. A room 10 feet by 10 feet is plenty large for fifty young chickens and one hen. The floor of this room should be covered with sand, and then with cut alfalfa hay. They should be fed often and a great variety, and by doing so you will have no trouble in getting them started with practically no loss.

During the winter months is undoubtedly the time to hatch and raise chickens throughout the South. They grow and thrive during the cold weather, and you are not bothered with insects. By all means people should hatch just as many chickens as possible during the next two months. If so there would be no scarcity of eggs next fall and winter, and it is the only way possible by which a sufficient quantity of eggs can be had during the winter months, is by hatching your little chickens early. Set every hen you possibly can, and also keep your incubators in active operation. One chicken hatched in February or March is worth three hatched in June, July or August.

After the chickens pass partridge size and are well feathered they should then be given their liberty or have more range so they can begin growing and develop a frame with sufficient size and constitution to consume a lot of food to be converted into eggs after they are matured. People should always try to set two or four hens at the same time (where they are using hens) and then give the chickens to one hen. A hen should be dusted with insect powders thoroughly while setting at least three times, and the chickens will come off free from insects. There is nothing better than a hen to set or raise your chickens. While it is slow progress by this method, still it is the safest and best policy in the end. Every family who has as many as twenty to thirty hens can well afford to buy a hundred-egg incubator and a brooder. These are always ready, and by carefully watching them you can easily get off two or three hatches during the spring months and get started as many chickens as the average family will need. No investment connected with poultry will pay better. However,

as I have said before the hens are the surest, but with a little experience, following the directions closely and the proper time and attention given incubators and brooders thousands of chickens could be raised at a season of the year when it is the proper time to raise them that would never be hatched if it were not for incubators and brooders. It is absolutely essential that they are used, especially on large plants, and they can be made very profitable even with every small family who raise enough chickens for their own use.

The high price of both eggs and poultry has put thousands of people to thinking, and many will undertake to produce enough for their own use from now on that had never thought of doing so before. We are being forced to do this. Therefore, it is essential, and the sooner people learn how easily it can be accomplished the better will our country be supplied with poultry products. It is to the interest of every family living to see more poultry and eggs produced, as it would naturally cheapen the cost of these products if we had more of them. This past winter has convinced many people of the importance of having a nice lot of hens through the winter.

I know of quite a few farmers and several people who live in the city that have had a nice income every week during this winter from the sale of eggs. Three parties near me, just as a side line on the farm, have realized an average of more than \$25 per month from eggs during this fall and winter from something less than one hundred hens kept by them. While this does not seem much, it has been a great help to them and has come at a time when there were no other sales being made off of the farm. If one-fourth of the farmers and croupers would sell from \$15 to \$25 worth of eggs each month, especially during the winter months it certainly would be a great help and a great saving to the family. It is surprising at the end of the year to know how much in dollars and cents a small flock of hens will earn if they are hatched at the right time and properly cared for.

By hatching and caring for little chicks as I have outlined in this article, during the early months of the

WRITE STORIES for MOVING PICTURE PLAYS

New, Spare-time Profession for Men and Women—One Man Makes \$3500 in Six Months

Owing to the large number of new motion picture theatres which are being opened throughout the country, there is offered to the men and women of today, a new profession, namely, that of writing moving picture plays. Producers are paying from \$25 to \$150 for each scenario accepted, upon which they can build a photo play.

\$3500 in Six Months

As it only requires a few hours' time to construct a complete play, you can readily see the immense possibilities in this work. One man, who gave the idea a tryout, writes that he earned \$3500 in six months. It is possible for an intelligent person to meet with equal success.

One feature of the business which should appeal to everyone, is that the work may be done at home in spare time. No literary ability is required and women have as great an opportunity as men. Ideas for plots are constantly turning up, and may be put in scenario form and sold for a good price.

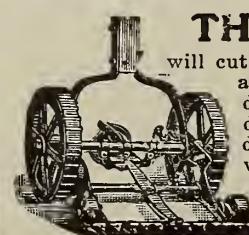
Particulars Sent FREE.

Complete particulars of this most interesting and profitable profession may be had FREE OF CHARGE by sending a post card to:

Photo-Play Association
Box 158 WILKES-BARRE, PA.

Conaville Poultry Farm

Anconas, Rose Comb White Orpingtons, S. C. Whites, Buff and Black Orpingtons, White Buff and Barred Plymouth Rocks, Buff and White Leghorns and Rhode Island Reds. Eggs from fine stock at prices that's fair. Get our handsome booklet and mating list, with cuts from life. CONAVILLE POULTRY FARM, Mallet Creek, O.



THE CLIPPER
will cut tall and short grass, do all trimming along walks, drives and fences. If your dealers haven't them, drop us a line and we will send circulars and prices.

Clipper Lawn Mower Co.
5th St., Dixon, Ill.

Save the Little Chicks

The delicate digestive organs of baby chicks require a specially prepared and well balanced food to prevent fatal bowel troubles during the first 10 days of their lives.



Bring 'em through critical period safely

Feed your chicks, turkeys, pheasants or other young fowl the ORIGINAL and specially prepared COMPLETE FOOD—

"F. P. C. Chick Manna"

Watch 'em thrive and develop into healthy, husky youngsters with sound, vigorous constitutions. It regulates and strengthens their digestive organs, promotes growth, protects them against epidemics. Introduced in 1884.

The First Known, Specially Prepared Chick Food

None other like it. Recognized by prominent poultrymen as a clean, wholesome, honest, well balanced chick food with special health preserving properties. M. K. Boyer, the well-known authority, says: "Chicks not only like it, but thrive wonderfully on it." There are many imitations and substitutes, but none contain the ingredients which make the ORIGINAL "F. P. C. Chick Manna" the unequalled first 10 day food.

Ask your dealer for it. If he cannot supply you, write direct for

SPECIAL PARCEL POST OFFER

Send today for free circulars of "F. P. C." Foods and Supplies and our liberal introductory offer of 1 lb., 5-lb. or 15-lb. package of Chick Manna by Parcel Post.

F. P. CASSEL & SON, Sole Manufacturers
Number A-14
LANSDALE, PA.

year, thousands of people could have next fall and winter an income from their poultry that they have never had before. Do not neglect getting ready and doing this work immediately, because if it is put off it will put your hatching late into the summer, which requires a lot more work, and you can never raise anything like as many young chickens hatched in the summer as you can by hatching early in the spring. When the people of this country learn to change their hatching and raising time for young chickens that much quicker will we find how much easier it is to do so. We will then get more pleasure and profit out of the business than we have been doing heretofore. Hatching, raising and caring for young chickens is a business within itself, and the more experience a person has in this respect, naturally the better results will they be able to obtain.

The splendid work I have seen done by a number of people this past fall and winter has thoroughly convinced me how easily chickens can be raised during the winter months if a person will only go to a little trouble, prepare for them and hatch them at the proper time. I know of one party right in the city of Atlanta, on a city lot, who has raised this fall not less than 150 splendid young chickens that are now frying size. He has six rooms in an ordinary shed house in the back yard. These rooms are about 12 feet by 12 feet, are covered on the front (which faces south) with 1-4 inch mesh wire. The rooms are floor-ed and the house is absolutely rat proof. The floors are covered with sand, then with a coating of chopped alfalfa hay, and in these 6 rooms he has kept a hen and chickens through the fall and winter, and has a flock



SINGLE COMB WHITE LEGHORN BANTAMS

Are attracting great and widespread attention, not only from a beauty standpoint, but they lay a large quantity of fair size eggs at minimum cost of feed. Eggs, \$5.00 per 15.

C. L. HUGHES, 819 Evans St., AUGUSTA, GA.

SANDY RUN POULTRY YARDS

Is still winning at the leading shows. Nearly cleaned up everything in White and Partridge Wyandottes at Raleigh, N. C., and Lynchburg, Va., in January (only the 2 varieties exhibited); have been winning like this for 15 years. Don't just buy up a few good birds and make a good winning one year and then quit, but we raise the birds to win in the largest shows year after year. Can sell you winners or birds mated to produce winners at low prices for quality. Several nice cockerels and some females yet for sale at \$2.00 each and up in White, Partridge and Columbian Wyandottes, Black Minorcas and Brown Leghorns. Eggs now ready from the best matings of above breeds at \$2.00 to \$5.00 per 15.

SANDY RUN POULTRY YARDS

:-

ELLENBORO, NORTH CAROLINA

SOUTHERN STATES DUCK AND POULTRY FARM

The HOME of QUALITY BREEDING BIRDS, Box 214, COLLEGE PARK, GA.

Breeders of the famous Buff Orpington Ducks, Barred and White Plymouth Rocks, White Wyandottes, S. C. White Leghorns, S. C. Black Minorcas, S. C. Rhode Island Reds, Black, Buff and White Orpingtons. Our birds are of the best and purest strains of blood of their respective varieties. They are bred for vigor of body and heavy yield. For breeders, they cannot be excelled. Book your order for your requirement of setting eggs and baby chickens now. Splendid idea to get a setting or two for new blood in your old flock. Mating list and catalogue mailed on request.

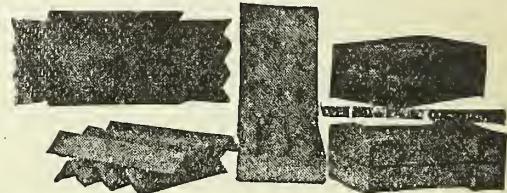
of chickens now that would easily bring \$150 to \$200 if sold for eating, raised with these six hens and a very small amount of work. This same party sold during the month of December twelve birds that he raised last spring (the same way) for \$255. They were good, had been properly raised, were the right kind of stock to start with, and it was no trouble for him to find a buyer. People soon find out when breeders have such things to offer; if they are the right kind and have been properly raised it is always easy to find buyers for such fowls. A visit to this place several times during the fall and winter has thoroughly convinced me what can be accomplished with a little effort on a city lot and this party during the year will make enough money off of a few good birds kept in his back yard to pay a good interest on the amount of money he has invested in his home. The opportunity is here for the man who will take care of his young birds and get them started right. They will do the rest if he does his part.—Loring Brown in Atlanta Journal.

—o—

The department of agriculture has recently received letters from a number of persons who desire to place a product on the market under the name "Egg Powder" or "Egg Substitute." These designations would undoubtedly lead the ordinary purchaser to believe the product either to be made from eggs or to have the effect of eggs in baking. In reality, the product is nothing but a baking powder containing a considerable excess of ground rice as a filler and colored yellow with powdered turmeric.

The food and drugs act prohibits the sale of food products under false or misleading names; as it is evident that a product of this kind cannot be regarded in any way as a substitute for eggs in baking, its sale as an egg powder or egg substitute is not sanctioned by the department.

Buy Diamond Egg Carriers



It is a fact and not a boast that eggs get the maximum protection in the Diamond Egg Carriers. Order today. Sample 25c. 15 egg size, doz. \$1.50; \$11.00 hundred; Parcel post boxes all sizes. 1 to 12 dozen. Poultry Supplies. DIAMOND BOX MANUFACTURING CO., Room 326, 219 N. Second St., Minneapolis, Minn.

STOP WHITE DIARRHÖEA

50 per cent. of all chicks hatched in this country are dying with that terrible disease. For 6 years I have raised 96 per cent. free from it. This is a great boon to the poultry world. Send \$1.00 for How and What to Feed. Your money back if it fails. R. I. Red cockerel's sons and grandsons of Golden Princess that layed 291 eggs and eggs from this great strain. A poultry and fruit plant 9 acres, large house, hot and cold water, gas, bath, trolley at door. 5 minutes to P. O. Paying 25 per cent. on price. IRA P. WATSON, Box 20, Fredonia, N. Y.



Separates your layers from your non-layers without handling the bird. The only complete trap nest. Meets every requirement of the hen. Different, superior and simpler in construction than any trap nest ever put on the market. Its simplicity of construction makes the cost less and its new features make it more complete than any other. Price \$17 per dozen. \$9 per 1/2 dozen. Five dozen lots \$12 dozen. F. O. B. Staunton, Va. Cost must accompany all orders. Address: THE JORDAN-CHAPMAN MFG. CO., 225 North Central Ave., Staunton, Virginia.

Quality Bred-to-Lay
Single Comb Varieties

Black-MINORCAS-White, Black ORPINGTONS

EGGS in Any Quantities Readily Furnished at Let Live Prices

PARK FARM

RICHMOND, KENTUCKY

POULTRY INDUSTRY IN UNITED STATES

The United States is indeed a great country. Great in natural resources, in water power, in manufacturing and in agriculture.

Agriculture is the leading ~~and base~~ industry in all progressive countries. Any country that hopes to have a continuing prosperity must zealously guard and intelligently foster agriculture in all its varied departments.

The products of agriculture are those that grow directly out of the ground; cereals, cotton, etc., and those produced by the farmer from feeding his crops into them; cattle, horses, sheep, hogs, poultry, etc.

The cattle industry is now becoming a matter of national concern. Grazing lands are rapidly turning into farms and the herdsman, like the Indian, is passing into "innocuous desuetude."

Meat prices are rising and continuing to rise under "High Tariff," "Low Tariff," and "No Tariff" until this "meat eating" nation has become alarmed.

Disease has made hog raising so precarious that the nation cannot hope to lessen meat prices by increased output from this source. Then too, pork is not a satisfactory all-the-year round meat.

Where shall we turn for our meat? From what source can we hope to draw our daily supply year in and year out without diminution of the supply? We answer to poultry.

But how can we hope to ever raise poultry in quantity sufficient to satisfy the appetites of 92,000,000 people.

The present mortality of the chicken industry is now 66 2-3 per cent of the yearly hatch. The turkey industry has decreased within the past ten years over 50 per cent, until scientists, such as Dr. F. H. Stoneburn cry out in despair that the turkey in a few more years, can only be found in a zoological garden unless blackhead is checked. Disease, such as leg weakness in ducks, blackhead in turkeys and cholera in chickens, has disheartened the poultry raising public until many feel the door of hope is shut to them forever.

Don't let the hobgoblin of despair cloud your vision. A few facts should dispel your gloom.

The poultry industry, despite all its present handicaps, has within the past few years sprung, like a young giant, to the front of our nation's industries until today it is a billion dollar industry; greater than cattle or hogs, greater than wheat or oats; greater, even, than cotton and is now vieing with king corn for supremacy. The people, who always do things are behind it—the people have made this tremendous industry which, today, is



EGGS
FOR
HATCHING
BABY
CHICKS

ANY QUANTITY PRICES LOW WRITE FOR CIRCULAR
O. T. HALLMAN, R. 2, BOX 364, SALISBURY, N. C.

S. C. White LEGHORNS

This is our first ad. in any poultry journal. Each year before this, we have oversold in our own vicinity to repeat customers, but our increased flock enables us to reach into larger territory. Price for eggs, \$1.50 for 15; \$8.00 per 100. We have a pen of pure Corning Egg Farm stock and can supply a limited number of eggs at \$3.50 for 15.

ENGERT POULTRY FARM -:- Station C -:- CHATTANOOGA, TENN.

only an earnest of its future greatness—but why? Because the people know the nation cannot hope longer to get its meat supply from cattle, sheep and hogs.

Because the people know that poultry is the only substitute for beef known to man that can be eaten day in and day out. Because the people know that, individually, they can raise enough for home consumption, plus a little more to sell.

While our statesmen and politicians have been devising new tariffs and elastic currency in the hope of reducing the cost of living, the people have increased and are increasing the poultry and egg industry as a food supply for the nation at the rate of approximately \$100,000,000 yearly, a fabulous sum.

But how can this most important industry be assisted, that it may increase many times faster?

By continuous and wide distribution on the part of those in authority, both state and nation, of "fact literature." But we have this now.

Our national government has the most thorough and modern agricultural department of any nation of the world. Literature by the ton is scattered far and wide until it reaches the remote corners of the country.

Our state governments all have agriculture departments, from which its

citizens can obtain information on any agricultural subject. We have experiment stations, experimental farms—farmers' institutes and even institute trains, traveling hither and thither and spreading agricultural knowledge to the four corners of the nation. What else can we do? But is this literature all of the "fact literature?" Is there no "fact literature" left undistributed?

The commonwealth of Virginia, through its experiment station as far back as 1903 printed its bulletin No. 144 and distributed some hundreds of them; that is all—this bulletin states that the department analyzed 23 of the many stock and poultry powders sold in this nation. This bulletin contains the astonishing information that "every single one" it analyzed and therein listed "was composed largely of nothing more than ordinary feed stuffs, such as ground wheat feed, corn meal, cotton seed meal, linseed meal, etc.," and in not a single case was there a concentrated feed, in any form. These powders, as per this bulletin, are sold to the public at from \$140.00 per ton to \$160.00 per ton. And (quoting) "the medicinal properties of these articles are less to be recommended than any other characteristic. They are not compounded with reference to any particular ailment of the animal, but are simply conglomer-

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ate mixtures of a few of the most common and cheap drugs. These drugs are not present in sufficient quantities, when fed according to directions to have any appreciable effect on the animal, even when they are not mixed so that the action of one would not counteract the action of the other." Further (quoting) "The absolute absurdity of administering such medicines and in such quantities for any and all ailments must be apparent to the most ignorant feeder." Is not this "fact literature" and worthy of wide distribution? Ten long years have rolled by since this bulletin was issued, yet, today, not one in a thousand know these facts. How many of the sturdy farmers of this great nation would receive with pleasure and profit this "fact literature"? Should they have it—if not, why not?

Dr. D. E. Salmon (chief of the United States bureau of animal industry) in his work entitled "The Disease of Poultry" states that "the walls of the crop may be paralyzed in some diseases, as for instance, cholera and diphtheria."

The chicken, duck and turkey all have crops. The crop is the receptacle into which everything that passes down the fowls' throat enters.

When the fowl becomes diseased, the crop becomes paralyzed, (either partially or totally) and in cholera, and other kindred germ diseases, the paralysis is total. A most important "fact" for the poultryman to know.

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Enlightened by this knowledge, would he continue to pour all kinds (of kinds there is no end) of poultry medicines down the throat of the sick fowl, there to lie dormant while the disease he is trying to combat proceeds, unmolested with its deadly work?

Would not the dissemination of this "fact literature" teach the farmer and poultryman how not to treat many poultry diseases, even if it cannot point out to him a concrete method of treatment.

This great and intelligent nation, with its myriads of minds ever thinking, ever experimenting, will sooner or later discover a means of successfully treating sick fowls. Man has been relieved from the scourge of many diseases, so can fowls be, also.

There is now being manufactured in this country a preparation which is successfully administered by way of injection per the rectum.

This theory of administration is reasonable. It evidently avoids the "paralyzed crop" and succeeds in placing the preparation within the body of the fowl.

This idea may lead to the elimination or at least, in a large measure, check the terrible mortality which is the last and only barrier to an unlimited supply of delicious chicken for the table of both the rich and poor of the nation.

Having lost many thousands of dollars trying to raise poultry in ignorance of this "fact literature" I feel I can do my fellowman a kindly act by bringing to his notice knowledge that may be of value to him in his struggle to make poultry raising a success rather than a failure.

Any poultry information I possess will be cheerfully given to any poultry raiser upon request.—M. G. McClung, Salem, Va.

HOUSEHOLD RECIPES.

1. **Creamed Eggs**—Cook six eggs half an hour. While cooking make a cupful of white sauce; then peel the eggs and cut whites into pieces as large as the end of your little finger; put yolks through the potato ricer; mix whites with the hot sauce and pile the yolks on pieces of buttered toast, and scatter the yolks over all.

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2. **Baked Omelet**—For half a dozen eggs, take one cup of milk, two teaspoonfuls of melted butter, two teaspoonfuls of flour, salt and pepper to taste. Heat the milk a little and stir into it the flour, first mixed with a little cold milk. Add butter, then well beaten yolks, and last the whites of eggs beaten stiff. Pour into a buttered dish. Bake twenty minutes in a moderate oven.

3. **Dutch Style Eggs**—Chop a small onion very fine; cook with a small piece of butter until soft; add one quart of canned tomatoes; season with one teaspoonful of salt and one-half teaspoonful of paprika; add a little sugar; one tablespoonful of butter. When thoroughly cooked add six eggs well beaten and one teaspoonful of flour.

4. **Breakfast Eggs**—Boil six eggs slowly, twenty minutes; remove shells; cut eggs into slices and put them on a plate at one side of dish; in the dish put one tablespoonful of butter and one of flour rubbed together, one gill of stock and one gill of milk, one tablespoonful of chopped parsley, little salt, one-fourth teaspoonful of pepper. When ready to serve put dish over al-

cohol lamp or gas heater and stir until it thickens. Serve while hot.

5. **Egg Sauce**—Mix two tablespoonfuls of sifted flour with half a teacupful of warm butter; place over the fire a sauce pan containing a pint of sweet milk and a saltspoonful of salt; a dash of white pepper. When it reaches the boiling point add the butter and flour, stirring well, until it thickens and becomes like cream. Have ready three cold hard boiled eggs sliced and chopped; add them to the sauce; let them heat through well and serve in a gravy pan.

6. **Baked Eggs on Toast**—Toast six slices of stale bread, dip them in hot salted water and butter them well; cover with eggs, first breaking them from shells and slip over the toast; sprinkle with salt and pepper, and cover with a thickened gravy, either cream sauce or a meat gravy; turn over toast and eggs and bake in a hot oven until the eggs are set. Serve at once.—Miss Helen Syman, 24 S. Church St., Pittsfield, Mass.

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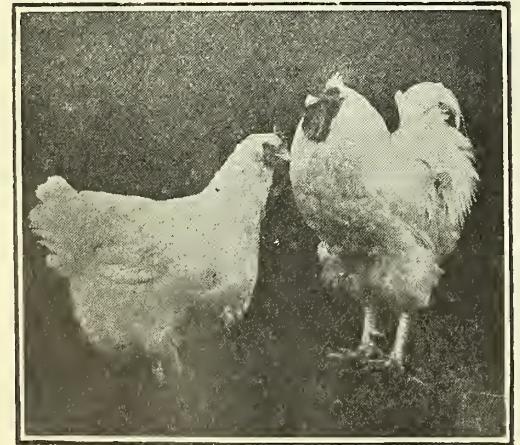
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First White Orpington Hen, Alabama State Fair, Oct., 1913.

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Popular Talks on Law

By WALTER K. TOWERS, A. B., J. D.,
 of the Michigan Bar

WHEN THE BANKER CASHES YOUR CHECK

John Sommers was keeper of the general store at Elmwood. Allan McPherson was owner and head of the Elmwood Savings Bank. The relations between the two men were far from friendly, but as there was no other bank near at hand Sommers maintained a commercial account in McPherson's institution. One Tuesday morning he purchased a load of potatoes from Clyde Webb, a prominent farmer of the vicinity. Sommers paid Webb immediately, giving him a check for twenty dollars properly drawn on his account in the Elmwood Savings Bank. Webb took the check to the bank and presented it to McPherson, who was in the teller's cage.

"What did you do, go and sell that load of potatoes to Sommers?" inquired McPherson.

"Yes; why not?" replied Webb.

"Well, you might have given me a chance at them. You know I'm buying produce, as well as banking."

"That's no reason why I shouldn't sell to John Sommers."

"Well, I'll show you you're a fool to sell to him," angrily asserted the banker. "He paid you with a check, didn't he? And you took it; and it ain't no good at all, see!"

"What's the matter?" asked Webb.

"Why, he's no good financially, and his check's no good, and you can't get any money on it."

Webb returned to Sommers, and Sommers hastened to the bank, knowing that his balance stood close to four hundred dollars. After a heated discussion at the bank Sommers travelled to the office of his legal counsellor. As a result action was begun against the banker because of his failure to cash the depositor's proper check, and substantial damages were recovered because McPherson's action had injured Sommers' standing and credit in the community.

This case illustrates what is perhaps the primary duty of the banker to his depositor—to pay all proper checks drawn on him against adequate deposits. If the banker fails to do this, either wilfully or through mistake, he must answer to his depositor. If the depositor whose check was wrongfully dishonored suffered any damages he may recover the amount against the banker. Injury to credit and business standing are the damages usually complained of in such cases. The banker is entitled to a reasonable time after presentation in order that he may examine into the state of the account against which the check is drawn. Good bankers have their affairs so arranged that this is a matter of seconds rather than minutes.

When Sommers sued McPherson, McPherson defended his action on the ground that while Sommers did have a balance of about four hundred dollars, the bank held Sommers' note for five hundred dollars, which was to fall due within a week. The banker insisted that he had a right to retain Sommers' deposits to insure payment of the note when it should fall due. His position was not justified in law and furnished him with no effective defense. A banker may set-off an indebtedness that is due by the depositor to the bank against the deposit, but he may not set-off one not yet due. Sommers could not be required to pay the note until its maturity, and until then it was not an effective obligation against him.

It not infrequently happens that the holder of a check for say ten dollars, will present it at the bank for payment, and discover that the depositor has a balance of but seven. Often the holder of the check would be glad enough to get the proportion that the deposit would cover then and there. But the bank need not make part payment. This is because it is entitled to the check for use as a voucher in settling with the depositor.

When the bank pays a proper check it has

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a right to charge payment against the depositor. It may be that the bank will choose not to dishonor the check for ten dollars when a balance of but seven remains and will accommodate its depositor by paying the check in full. This is what is known as an "overdraft," and while contrary to the printed rules of most banks, is still frequently done in ordinary commercial practice. If the bank allows an overdraft, in effect advancing money for its depositor, it may recover the amount from him.

Bankers do not take time to investigate a depositor's account for every check that is presented to the bank for payment. They depend upon memory, and confidence in the depositor, in many instances. So it sometimes happens that a bank will pay a check under the belief that the signer has an adequate balance on deposit, when such is not the case. On discovering its mistake banks have sometimes endeavored to recover the money paid the person who presented the check, but they have not been successful. In one sense of the word the bank paid under mistake, and mistake is sometimes ground for recovery of money paid, but not by a bank under these circumstances.

Sometimes after a person has signed and delivered a check he wishes to recall his action. He immediately gets in touch with his bank on which the check was drawn and instructs it not to pay that check when it is presented. This is known as "stopping pay-

ment." Stopping payment ends the bank's duty and also its right to pay the check, when presented. It not only need not pay the check, but it must not pay it. If it disregards its depositor's instructions and pays the check on which payment has been stopped, it is the loser, as it may not charge that payment against the depositor's account.

A. L. Sullivan owed James P. Long \$47.00, but by mistake he filled out the check to James A. Long and mailed it in an envelope addressed to James A. Long, and a James A. Long received it and cashed it at a bank. The bank lost the money it paid out on the check. This was because a bank is bound to make certain that it is paying the check to the proper party. In law the middle initial is not a part of a man's name and so the check was payable to James Long.

If there are two persons of the same name it becomes the duty of the bank to pay it to the person of that name who rightfully may receive it. So it is that bankers will cash checks only for responsible parties known to them.

Thus we have illustrated an extreme case under the general proposition that a bank paying a check must do so only to the proper party. If anyone steals or finds a check, or forges an indorsement, and so secures payment from the bank, the bank must stand the loss. If a check has been indorsed in blank, or was drawn in such form that it is payable to bearer, any bearer may receive payment on it and a bank is justified in paying it to any bearer, unless there are some special circumstances to cause it to believe that the bearer is not the rightful owner of the check and not entitled to receive payment of it. When you draw a check payable to "the order of John Smith" you are entitled to the assurance that the bank will pay it to no one other than John Smith or parties to whom he may transfer it by valid indorsement.

Paul Greer, in Chicago, signed a check for \$900.00, directing his local bank to "Pay to the order of Leon Young." Leon Young received the check in St. Louis and endorsed it as follows, "Pay to the order of The Copper Exchange Bank, Leon Young." He handed it to his clerk, together with a deposit slip, and told him to take it to the bank and deposit it. The clerk tore up the deposit slip and told the bank teller that Mr. Young wanted the cash. The cash was given to him and that was the last that was heard of the clerk or the \$900.00. Again the bank was the loser for the check was endorsed to the bank and not to the clerk, nor in blank by Leon Young so that the bearer might receive the money. If Young had simply written "Leon Young" on the back of the check he would have been the loser. So if you are to send a check to a bank for deposit, and do not trust your messenger absolutely, indorse it to the order of the bank and not in blank—then the bank will not deliver it to the bearer except on your written order.

In the case of forgeries the banker also bears a heavy responsibility. No other checks may be charged against the account of a depositor than those he actually signed, and which have been paid to the proper party. If the bank pays a forged check it is the loser, unless the depositor in some way contributed to the fraud practiced on the bank and so is not in the position of an innocent party. In the case of raised checks the banker also must bear the loss, again with the proviso that the depositor who signed the check in no way contributed to the fraud. If he drew the check so carelessly as to make the fraud possible, or in any way conspired with those who raised the check, his position is not so favorable. We have before noticed that the bank loses if it pays a check to a party not entitled to receive payment of it and that this is true though the fraud be accomplished by a forged indorsement. Of course a bank paying money to a party claiming his rights through a forged indorsement may recover from that person—always provided it can catch him.

Such are the rights of the depositor against his banker. Remember that the banker bears these heavy responsibilities and if in dealing with him he insists that you comply with formalities that to you seem useless, remember the strict requirements made of him. Handle all your checks in a business-like manner.

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RARE BARGAINS—Golden and Silver Sebrights, Buff, Black, White and Partridge Cochin, Rose Comb Black, Black Tailed Japanese, Red Pyle and Black Red Game and Single Comb White Leghorn Bantams. Highest honors Madison Square Garden. Buy the best. Make your wants known. 1,000 birds. PROPER & SON, Schoharie, N. Y. 126

GOLDEN SEBRIGHT BANTAMS—Eggs \$1.50 a setting. RIVERSIDE POULTRY YARD, Greenville, S. C. 120

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WHITE FACE BLACK SPANISH—In order to make this wonderful breed better known, I am offering fifteen eggs, \$1; thirty, \$1.50. MRS. HATTIE EHEART, Ruckersville, Virginia. 118

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SICILIAN BUTTERCUPS—The best laying breed. Eggs for hatching from selected birds. ARDEN POULTRY YARDS, Arden, N. C. 119

SICILIAN BUTTERCUPS—The coming breed. Lay large white eggs. Eggs from choice stock \$3.00 per 15. ELSIE B. STINE, Rohrersville, Maryland. 118

SICILIAN BUTTERCUPS—Eggs for hatching, prize winning kind. Mating list ready. HARRY C. KNOPP, Rocks, Md. 120

SICILIAN BUTTERCUPS—Eggs from prize winners. MRS. O. P. EASTES, Greenfield, Ind. 118

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WE HAVE EXTRA CHOICE PEN—(10 hens and cockerel) Silver Campines, the best blood on earth, Rev. Jones, Kennedy and Arnold strain, bought direct from and mated by the veteran breeder, Aug. D. Arnold. A limited number of eggs at 25 cents each. This pen has averaged 65 per cent egg yield in December, January and February. You may pay more but you can't buy better. ROLAND THOMPSON, member American Campine Club, No. 310 W. McBee Ave., Greenville, S. C. 118

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POLLARD'S RUNNER DUCKS—Winners of blue and heavy layers of pure white eggs. Pen No. 1 proper shade of fawn and white, and type to please your judge in any show, eggs \$5 per 12. Pen No. 2, excellent for \$2, pure white \$2.00 per 12. TUSCUMBIA POULTRY HEIGHTS, W. T. Pollard, Prop., R. 1, Corinth, Miss. 118

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BUFF ORPINGTON DUCKS—Eggs \$1.50 per 13. Large white eggs. Swain's strain. Rouen duck eggs \$1 per 13, \$5 per 100. Good stock for sale. MRS. JENNIE BIDDLE, Darlington, Ind. 119

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SILVER, SPANGLED HAMBURG'S—Winners at big shows for 12 years; correct shape, color, size; originator "Beauty Spot" strain. Best eggs \$2.50 for 15; \$4.00 for 30. Circular free. CHARLEY LAUGHLIN, Bloomfield, Indiana. 120

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BLACK LANGSHANS—1913 champions—Firsts; specials; \$50.00 Sweepstake trophy. Eggs—First yard—all prize winners—\$3.00 per 15. Second yard, headed by prize winner, \$2.00 per 15. AUGUST LAWSON, Charlotte, N. C. 119

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S. C. W. LEGHORNS—Large, well matured; heavy laying; quality birds. Eggs \$1.25 per 15; \$6.00 per 100. AUGUST LAWSON, Charlotte, N. C. 119

S. C. BROWN LEGHORNS—First cock, first hen, Charlotte, December, 1913. Eggs \$2.00 per setting. L. W. THOMASON, 507 Worthington Ave., Charlotte, N. C. 119

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S. C. WHITE LEGHORNS—Eggs for hatching from best laying and exhibition strain in South. C. W. MOODY'S LEGHORN FARM, Asheville, N. C. 118-tf

S. C. WHITE LEGHORN—Eggs for hatching from our best pens made up of our Madison Square, Baltimore and Richmond winnings, 1st cock; 1st pen; 1st pullet; 2nd pullet. Silver cup for best display. \$7.50 per 15. Select utility mating \$2.00 per 15. F. F. V. POULTRY FARM, Joseph Reiff, Manager, Meadow & Broad Sts., Richmond, Va. 118

WHITE LEGHORNS—One pen White Leghorns for sale; something good, \$8.00. OAKLAND STOCK FARM, A. S. Bell, Mgr., Route 13, Knoxville, Tenn. tf

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S. C. BUFF ORPINGTONS—Eggs from the originators stock; some of the best; pen Nos. 1 and 2, \$3.00 and \$1.50. MRS. R. J. PLEAS, Chipley, Florida. 119

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25 PAIRS SPLASHED CARNEAUX—Mated and banded 1912 and 1913 Hatch \$1.75 pair. The Ideal Squab breeders. Young Carneaux \$7.00 per dozen; young Homers \$6.00 per dozen; Mated Swiss Mondaines \$3.00 pair; Mated Homers \$1.25 pair. Guaranteed stock. GEORGE A. COLLINS, 511 Luttrell St., Knoxville, Tenn.

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SINGLE COMB RHODE ISLAND REDS—Fifteen years, winners, Illinois, Indiana State Fairs; Cleveland, Ohio; Sullivan, Ind.; Paris, Alton, Robinson, Marshall, Oblong, Newton, Farina, Effingham, Fairfield, Kimmunity, Palestine, Flatrock, Hutsonville, etc. 15 eggs, \$1.50-\$5.00; 100, \$8.00. Breeding stock for sale reasonable. **J. S. WALKER**, Fairview Poultry Farm, Palestine, Illinois. 118

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MY PREMIER STRAIN PARTIDGE WYANDOTTES—Won first cock; first hen and sweepstakes pair last fall. Indian Runner Ducks. Poland China Pigs. Eggs and stock. Write me. **WALTER INGLES**, Dublin, Virginia. 119

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SPECIAL SUMMER BARGAIN SALE of breeding stock, less than half value, to make room for youngsters. Show birds, fine breeders, utility stock, in Rosecomb White Orpingtons, Barred Rocks, White Wyandottes, Reds, White Leghorns, Buff Leghorns, Anconas, and White Rox. Write your wants for description and prices. The Conaville Yards, Mallet Creek, Ohio. 119

BABY CHICKS; HATCHING EGGS—From thoroughbred Single and Rose Comb White and Black Minorcas, Mottled Anconas, Imported Silver Campines, Peerless Houdans, White and Brown Leghorns, White and Black Orpingtons, White and Barred Plymouth Rocks, Racket River Rhode Island Reds and Milner's Mammoth Minorcas. Dept. D, **MILNER'S MINORCA FARM**, Wurtzboro, N. Y. 119

ANCONAS, SILVER WYANDOTTES, ROSE COMB BROWN LEGHORNS—Winners at New York, Philadelphia, etc. Send for mating list. **GEORGE J. HANKS**, Williamsport, Pa. 119

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"THE UTILITY POULTRY BOOK"—is the one book of its kind on the market. It is edited and published by Mr. Oscar F. Sampson, whom the Industrious Hen has endorsed as one of the authorities on utility and market poultry. The book is 4x8 inches with 56 pages, and fits the pocket as well as the pocket-book. It has 11 intensely interesting and practical chapters on practical poultry work, and covers the subject thoroughly. It has been endorsed by some of the most practical writers, editors and judges in the business today, and is sold under the understanding that if you are not satisfied you may return it in good condition within 5 days, and get your money back. Price by mail, only 35c. May be had from publisher, O. F. SAMPSON, (H) Youngs, N. Y. 118-120

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If you could see the 7 grand pens of White Orpingtons I have mated for the season's egg trade, you would surely say they have the quality. Each pen headed by a winner mated to produce strong, true Orpington type, with purity of white color. My Whites have won 300 prizes, cups, A. P. A. and club medals, as well as best displays; best birds in shows at our leading exhibitions, and known the country over as one of best strains. If you are looking for real high quality, I can supply you. Mating list explains fully.

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White Orpington Club

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At TENNESSEE STATE FAIR 1913, on eight entries I won five firsts and three seconds and special. At CHATTANOOGA 1913, on four entries I won four firsts and two specials. At AUGUSTA 1913, in fierce competition, on four entries I won 2nd hen, 3rd pen and 5th cockerel. Get eggs for hatching from the kind that always win.

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Big winners at the big shows for several years. Stock for sale at all times. Our free mating list is ready. It tells all about our birds, and gives their winnings at Boston, Chicago, Cleveland, Cincinnati, Indianapolis, Indiana and Tennessee State Fairs, Columbus, etc. We are sure we can please you. Write us today.

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BARRED PLYMOUTH ROCKS

I do not believe there is a man in America today that is in such a good position to give you value in Barred Rocks as I am. My yards are teeming with quality, and if you will call on me I will share it with you. There is no merit in claiming "Best in the South," because every man who wins a few prizes at some little show makes this claim, and besides I have either defeated in the show room or sold birds to nearly all the Barred Rock men claiming "Best in the South." I can and will help you; my 25 years experience is at your service. Send for catalogue, and book your egg orders early, because the supply is limited. Quality, not quantity.

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Prize winning birds from best blood in United States. Eggs \$3 and \$5 per 15. A few cockerels and pullets for sale at bargain prices.

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SINGLE COMB RHODE ISLAND REDS EXCLUSIVELY

My show records at Knoxville, Hagerstown, Augusta and Atlanta evidence positively that my Reds are correct in type and color. No one has better. Eggs and stock for sale. Write for catalogue and prices.

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To Please You is a Pleasure. Write

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MEYER'S CHAMPION STRAIN OF LANGSHANS

Swept the deck at the Little Rock, Ark., and the St. Louis shows this season, winning nine firsts out of a possible nine. They have been winning at America's best shows in the last few years. If the best is what you want I have the goods. Eggs from all pens, \$2.50 per 15, or \$4.50 for 30. Write for my free circular. It tells all about them. Yours for better Langshans.

W. A. MEYER

BOWLING GREEN, MO.

BOOK EGG ORDERS NOW

SPAUGH'S BARRED PLYMOUTH ROCKS

LOOK AT THESE WINNINGS: Indianapolis, February 2-7, 1914, I won in hot competition, 6 cock; 3-4 hen; 2-8 cockerel; 2 pullet; 1 pen. In pullet-mating, 3-7 cock; 3-8 cockerel; 1st pen; cockerel-mated, 1-4-6 hen; 1-2-4 pullet; 1st pen. I won the lion's share at the great Cincinnati show; 1st cock; 1-2-3 hen; 1-2-3-4 cockerel; 1-4 pullet and several others, cockerel-bred hens and pullets and pullet-bred cocks and cockerels. Several hundred show and breeding cockerels, also cocks, hens and pullets for sale.

EGGS—\$5.00 PER 15—EGGS

I have several fine pens mated up for the egg trade, and you should order early to avoid delay. Write your wants

C. E. SPAUGH

BOX 5

RUGBY, INDIANA



First Buff Orpington Cock, Columbia, S. C., October, 1913. Bred and owned by DeWitt C. Bacon, Guyton, Georgia.

Why Trifle With Your Luck?

Regrets Won't Mend a Bad Start!

You can get the best start with eggs for hatching, or day old chicks from my superlative matings of either White Leghorns, Buff Orpingtons, White Plymouth Rocks or S. C. Reds. Or they will give you the right kind of new blood, and improve your flocks. My free mating list tells all about these matings, and my phenomenal show records. Rock bottom prices. Prompt service. Satisfaction guaranteed. Send for the mating list.

DeWITT C. BACON 88 Springfield Ave., GUYTON, GEORGIA

BUFF PLYMOUTH ROCKS

Great record at Missouri Egg Laying Contest. One pullet tied for the lead with two others in February, out of 1040 hens. Four totaled 95 eggs for the month, which is better than four hens in any other pen in the contest. You need some of this laying strain. They are exhibition as well, and among the best in the country. Eggs \$4.00 for 15; \$10.00 for 50, shipped direct by the officials of the contest.

DINSMORE ALTER

UNIVERSITY OF ALABAMA

TUSCALOOSA, ALABAMA

We haven't booked all of our eggs for sale this season, nor have we pen paralysis from endorsing our name on remittances.

We are still advertising and asking for a little more manna in the way of orders. So write for our catalogue and mating list of S. C. Buff and Blue Orpingtons, R. I. Reds, Houdans, Pheasants and Ducks. See if we can not fill your aching void.

CHILES & COMPANY

MT. STERLING, KENTUCKY

ANDREWS EFFICIENCY STRAIN BARRED PLYMOUTH ROCKS

and S. C. White Leghorns make the most sensational records at this season's great Southern Shows ever attained by any Southern Breeder. Wonderful winnings at National Conservation Exposition Show in Knoxville in September; Atlanta, New Orleans and Chattanooga in December, each show made with different strings of birds, proving we raise abundant prize winning specimens. At the National Conservation we won with ten March hatched youngsters—Leghorns: 1, 2 cockerel; 1st pen and 3rd and 5th pullets; special purse for the best cockerel in the show (all varieties competing) A. P. A. Medal for best cockerel in Mediterranean class; N. S. C. W. L. Club special, best display, best pen and best cockerel. At Atlanta in December in the hottest competition in the South—in Barred Rocks—2nd hen and in 275 W. Leghorn entries, largest display ever seen South of the Ohio River, 5th pen and 5th hen. In Chattanooga, the week following, with different specimens, in the largest and best show ever held by Chattanooga Poultry Association, we made the most wonderful winnings ever made in the South. On Barred Rocks we took every Blue Ribbon, 1st cock; 1, 2, 3 cockerel; 1, 2, 4 hen; 1, 3, 4 pullet; 1st pen. In Leghorns, 4th cock; 1, 2, 3, 4 hen; 1, 2 pullet, and 1st pen. Also \$50.00 trophy for best pen in show, all varieties; special cup best pen in Mediterranean class; special cup best display in entire show. In New Orleans, same week as Chattanooga "Prince Efficiency," Barred Rock Cockerel won 1st cockerel. This on one entry. If you're from Missouri, we have shown you that "You can always win with Efficiency." ASK THE JUDGES. Beautiful catalogue mailed. Pens now mated up, each headed by a famous champion. Get in line and secure Efficiency Strain. Eggs from either breed, \$6.00 per setting. Prize winning stock and breeding specimens for sale. Originator, breeder Efficiency strain Barred Plymouth Rocks and S. C. White Leghorns. "Ask the Judges."

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